

Hiveforce Labs

## THREAT ADVISORY

**X** ATTACK REPORT

ZipLine Campaign Spins Web Around U.S. Supply Chain Manufacturers with MixShell

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**A1** 

TA2025261

# Summary

Campaign: ZipLine Malware: MixShell

Targeted Regions: United States, Singapore, Japan, Switzerland

**Targeted Industries:** Manufacturing, Semiconductors, Consumer goods, Media, Construction, Engineering, Aerospace, Defense, Biotech, Pharmaceuticals, Energy,

**Utilities**, Electronics

Attack: The ZipLine campaign is a targeted social engineering operation against U.S. supply chain - critical manufacturers, where attackers build trust through extended, business-like conversations initiated via company "Contact Us" forms. Through credible email exchanges and pretexts such as NDAs or AI transformation initiatives, they establish legitimacy before distributing malicious ZIP archives hosted on trusted platforms, which ultimately deploy the in-memory malware known as MixShell.

#### **X** Attack Regions



ustralian Bureau of Statistics, GeoNames, Microsoft, Navinfo, Open Places, OpenStreetMap, Overture Maps Fundation, TomTom, Zenrin

## **Attack Details**

- A social engineering campaign known as ZipLine is actively targeting supply chain critical manufacturing companies, primarily in the United States. The attackers disguise their operations as legitimate business interactions, ultimately delivering a custom in-memory malware implant called MixShell.
- Unlike traditional phishing schemes that rely on unsolicited emails, ZipLine reverses the approach. The attackers initiate contact through a company's public "Contact Us" form, tricking the victim into starting the conversation. From there, they sustain convincing, business-oriented email exchanges for up to two weeks before introducing a malicious ZIP file.
- To strengthen credibility, the attackers often pose as potential business partners and request the signing of a Non-Disclosure Agreement (NDA). Once trust is established, they deliver a ZIP archive hosted on the trusted Heroku platform. Inside the archive lies a weaponized Windows shortcut (LNK) file, which executes a PowerShell-based loader. This loader deploys MixShell, an in-memory implant equipped with DNS-based command-and-control (C2) capabilities, enhanced persistence, and stealth mechanisms.
- Once deployed, MixShell provides the attackers with a range of capabilities, including remote command execution, file operations, reverse proxying, stealth persistence, and deeper infiltration into the network. A PowerShell variant of MixShell further enhances evasion through anti-debugging, sandbox bypassing, scheduled task persistence, and advanced reverse proxy features. The ultimate motives of the ZipLine campaign remain unclear.
- Recent waves of the campaign show an evolution in tactics. A new variation leverages an AI transformation pretext, in which the attacker claims to support the target organization in implementing AI-driven operational efficiencies. Posing as an internal initiative, the phishing email frames the request as an "AI Impact Assessment" survey. To add urgency and legitimacy, it suggests that company leadership specifically requested the recipient's input to shape future decisions.

## Recommendations



**Strengthen Email and Communication Security:** Monitor and flag unusual use of Contact Us forms that lead to prolonged unsolicited business conversations. Deploy advanced email filtering solutions capable of analyzing content for social engineering patterns, not just malicious attachments. Implement warning banners for emails originating from external sources, even when they appear business-oriented.



**Control File and Attachment Handling:** Restrict execution of Windows shortcut (LNK) files and PowerShell scripts from email attachments. Sandbox and automatically scan ZIP archives before they reach end-users, even if they are hosted on trusted platforms like Heroku.



Harden Endpoint and Network Defenses: Deploy EDR solutions capable of detecting in-memory implants, PowerShell-based loaders, and DNS tunneling activity. Monitor for abnormal DNS traffic patterns that may indicate command-and-control communications. Apply strict controls on persistence mechanisms, such as scheduled tasks and reverse proxy configurations.

#### **Potential MITRE ATT&CK TTPs**

TA0043	TA0001	TA0002	TA0003
Reconnaissance	Initial Access	Execution	Persistence
TA0004 Privilege Escalation	TA0005	TA0007	TA0009
	Defense Evasion	Discovery	Collection
TA0011 Command and Control	TA0010 Exfiltration	T1594 Search Victim- Owned Websites	T1190 Exploit Public-Facing Application

T1566 Phishing	T1566.001 Spearphishing Attachment	T1059 Command and Scripting Interpreter	T1059.001 PowerShell
T1204 User Execution	T1204.002 Malicious File	T1053 Scheduled Task/Job	T1053.005 Scheduled Task
T1547 Boot or Logon Autostart Execution	T1547.001  Registry Run Keys / Startup Folder	T1055 Process Injection	T1140 Deobfuscate/Decode Files or Information
T1497 Virtualization/Sandb ox Evasion	T1036 Masquerading	T1082 System Information Discovery	T1071 Application Layer Protocol
T1071.001 Web Protocols	T1071.004 DNS	<b>T1090</b> Proxy	T1090.001 Internal Proxy
T1041			

### **X** Indicators of Compromise (IOCs)

ТҮРЕ	VALUE
SHA256	e69d8b96b106816cb732190bc6f8c2693aecb6056b8f245e2c15841fcb4 8ff94, d39e177261ce9a354b4712f820ada3ee8cd84a277f173ecfbd1bf6b100d db713, f531bec8ad2d6fddef89e652818908509b7075834a083729cc84eef16c6 957d2, 2c7bc0ebbbfa282fc3ed3598348d361914fecfea027712f47c4f6cfcc7056 90f, 71dec9789fef835975a209f6bc1a736c4f591e5eeab20bdff63809553085 b192, 83b27e52c420b6132f8034e7a0fd9943b1f4af3bdb06cdbb873c80360e1 e5419, f5a80b08d46b947ca42ac8dbd0094772aa3111f020a4d72cb2edc4a6c9c 37926,

Channel

ТҮРЕ	VALUE
SHA256	15d024631277f72df40427b8c50e354b340fac38b468f34826cc613b465 0e74c, 155bccbd11066ce5bf117537d140b920f9b98eaa0d3b86bdc8a04ac702a 7a1ef, 4dcff9a3a71633d89a887539e5d7a3dd6cc239761e9a42f64f42c5c4209d 2829, d6e1e4cc89c01d5c944ac83b85efa27775103b82fece5a6f83be45e862a4 b61e, 81c1a8e624306c8a66a44bfe341ec70c6e3a3c9e70ac15c7876fcbbe364 d01cd, 36b065f19f1ac2642c041002bc3e28326bec0aa08d288ca8a2d5c0d7a82 b56e6, f44107475d3869253f393dbcb862293bf58624c6e8e3f106102cf6043d6 8b0af
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ТҮРЕ	VALUE
URLs	hxxps[:]//docvault-share-665d141177ca[.]herokuapp[.]com, hxxps[:]//signlink-portal-37c581992418[.]herokuapp[.]com, hxxps[:]//signforge-a61a5975a04b[.]herokuapp[.]com, hxxps[:]//sharespace-link-360b265f3942[.]herokuapp[.]com, hxxps[:]//signtrack-docs-6a96b334b140[.]herokuapp[.]com, hxxps[:]//signcentral-vault-33ce0aff08dc[.]herokuapp[.]com, hxxps[:]//signcentral-7df32454744c[.]herokuapp[.]com, hxxps[:]//john-deer-apple-0c6f34d9c276[.]herokuapp[.]com

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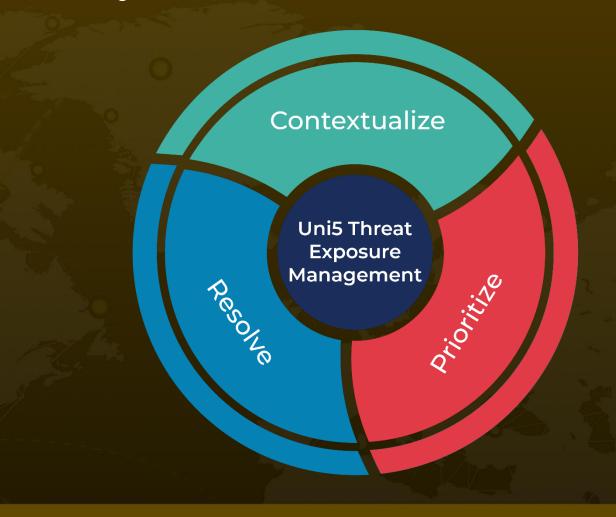
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### What Next?

At <u>Hive Pro</u>, it is our mission to detect the most likely threats to your organization and to help you prevent them from happening.

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