

Threat Level

₩ Red

Hiveforce Labs THREAT ADVISORY

• ACTOR REPORT

Silk Typhoon's Strategic Pivot: Exploiting IT Supply Chains for Espionage

Date of Publication

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Admiralty code

A1

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TA2025067

Summary

First Seen: 2021

Targeted Countries: Worldwide

Threat Actor: Silk Typhoon (aka Hafnium, Red Dev 13, timmy, ATK233, G0125, Operation

Exchange Marauder)

Targeted Industries: IT Services, Healthcare, Legal services, Higher education, Defense, Government, Non-governmental organizations (NGOs), Energy, Law firms, and Policy think

tanks

Affected Platform: Windows

⊙ Actor Map



Powered by Bing Australian Bureau of Statistics, GeoNames, Microsoft, Navinfo, Open Places, OpenStreetMap, TomTom, Zenrin

☆ CVEs

CVE	NAME	AFFECTED PRODUCT	ZERO- DAY	CISA KEV	PATCH
<u>CVE-2025-</u> <u>0282</u>	Ivanti Connect Secure, Policy Secure, and ZTA Gateways Stack-Based Buffer Overflow Vulnerability	Ivanti Connect Secure, Policy Secure, and ZTA Gateways	⊘	⊘	•
<u>CVE-2024-</u> <u>12356</u>	BeyondTrust Privileged Remote Access (PRA) and Remote Support (RS) Command Injection Vulnerability	BeyondTrust Privileged Remote Access (PRA) and BeyondTrust Remote Support (RS)	◇	⊘	⊘
<u>CVE-2024-</u> <u>12686</u>	BeyondTrust Privileged Remote Access (PRA) and Remote Support (RS) OS Command Injection Vulnerability	BeyondTrust Privileged Remote Access (PRA) and BeyondTrust Remote Support (RS)	⊘	⊘	⊘
<u>CVE-2024-</u> <u>3400</u>	Palo Alto Networks PAN- OS Command Injection Vulnerability	Palo Alto Networks PAN-OS	⊘	⊘	⊘
CVE-2023- 3519	Citrix NetScaler ADC and NetScaler Gateway Code Injection Vulnerability	Citrix NetScaler ADC and NetScaler Gateway	©	⊘	⊘
CVE-2021- 26855	ProxyLogon (Microsoft Exchange Server Remote Code Execution Vulnerability)	Microsoft Exchange Server	⊘	⊘	⊘
CVE-2021- 26857	ProxyLogon (Microsoft Exchange Server Remote Code Execution Vulnerability)	Microsoft Exchange Server	⊘	⊘	•
CVE-2021- 26858	ProxyLogon (Microsoft Exchange Server Remote Code Execution Vulnerability)	Microsoft Exchange Server	⊘	⊘	⊘
CVE-2021- 27065	ProxyLogon (Microsoft Exchange Server Remote Code Execution Vulnerability)	Microsoft Exchange Server	⊘	⊘	⊘

CVE	NAME	AFFECTED PRODUCT	ZERO- DAY	CISA KEV	PATCH
CVE-2021- 44228	Log4Shell (Apache Remote Code Execution Vulnerabilities)	Apache Log4j: 2.0 - 2.14.1	©	⊘	(

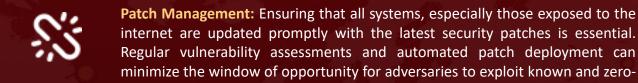
Actor Details

- Silk Typhoon, a sophisticated state-sponsored threat actor believed to be operating on behalf of Chinese strategic interests, now focuses on common IT solutions, such as remote management tools and cloud applications, to gain an initial foothold. By exploiting unpatched applications, they can elevate privileges and establish a presence within targeted organizations, setting the stage for further malicious activities.
- Once initial access is secured, Silk Typhoon abuses stolen API keys and credentials to infiltrate downstream customer networks. This involves leveraging access from compromised IT service providers, privileged access management systems, and cloud application vendors. With these keys, the attackers can perform reconnaissance, gather sensitive data, and reset default admin accounts, while also deploying web shells to maintain persistence and cover their tracks by clearing logs.
- In addition to API key abuse, the threat actor employs password spray attacks and password abuse techniques. They actively scour public repositories for leaked corporate credentials and use these to authenticate into corporate environments.
- After compromising a victim, Silk Typhoon rapidly moves laterally from onpremises networks to cloud environments. Their techniques include
 dumping Active Directory data, stealing passwords from key vaults, and
 targeting synchronization servers (such as Microsoft AADConnect/Entra
 Connect) to escalate privileges across both environments. By manipulating
 service principals and OAuth applications, they are able to exfiltrate sensitive
 data from services like email, OneDrive, and SharePoint via APIs such as
 MSGraph and Exchange Web Services.
- Historically active since at least 2021, Silk Typhoon's activity has shown a significant uptick since late 2024. The group has been linked to multiple CVEs over recent years, underscoring their ability to exploit vulnerabilities across diverse IT systems. Their systematic approach to infiltrating trusted networks and using advanced lateral movement techniques highlights the evolving threat landscape and the necessity for robust defensive measures.

O Actor Group

	NAME	ORIGIN	TARGET REGIONS	TARGET INDUSTRIES	
	Silk Typhoon (aka Hafnium, Red Dev 13, timmy, ATK233, G0125, Operation Exchange Marauder)	China		IT Services	
		MOTIVE		Healthcare, Legal services, Higher	
A CONTRACTOR		Information theft and espionage	Worldwide	education, Defense, Government, Non- governmental organizations (NGOs), Energy, Law firms, and Policy think tanks	

Recommendations



day vulnerabilities.



Monitoring and Detection: Enhancing network visibility and monitoring can significantly improve an organization's defensive posture. Deploying advanced security monitoring tools and integrating threat intelligence feeds enable rapid detection of suspicious activities. Continuous logging and real-time analysis of network traffic, combined with periodic security audits, provide a robust mechanism to uncover potential breaches in the early stages.

Network Segmentation: Proper network segmentation limits the damage that can be done if an attacker gains access to one part of the system. By segmenting critical infrastructure from less sensitive data, organizations can better contain breaches and make lateral movement more difficult for attackers.

※ Potential MITRE ATT&CK TTPs

TA0042 Resource Development	TA0001 Initial Access	TA0002 Execution	TA0007 Discovery
TA0006 Credential Access	TA0008 Lateral Movement	TA0005 Defense Evasion	TA0010 Exfiltration
TA0003 Persistence	TA0004 Privilege Escalation	TA0009 Collection	TA0011 Command and Control
TA0010 Exfiltration	TA0040	T1110.003 Password Spraying	T1110 Brute Force
T1078 Valid Accounts	T1190 Exploit Public-Facing	T1586 Compromise Accounts	T1068 Exploitation for Privilege
T1027 Obfuscated Files or	Application T1555 Credentials from	T1083 File and Directory	T1041 Exfiltration Over C2
Information <u>T1505.003</u>	Password Stores T1505	Discovery T1106	<u>T1059</u>
Web Shell T1574.010	Server Software Component T1598	Native API T1574	Command and Scripting Interpreter T1584
Services File Permissions Weakness	Phishing for Information	Hijack Execution Flow	Compromise Infrastructure
T1195.002 Compromise Software Supply Chain	T1195 Supply Chain Compromise	T1567.002 Exfiltration to Cloud Storage	T1584.003 Virtual Private Server

SPatch Links

https://forums.ivanti.com/s/article/Security-Advisory-Ivanti-Connect-Secure-Policy-Secure-ZTA-Gateways-CVE-2025-0282-CVE-2025-0283?language=en US

https://www.beyondtrust.com/trust-center/security-advisories/bt24-10

https://www.beyondtrust.com/trust-center/security-advisories/bt24-11

https://security.paloaltonetworks.com/CVE-2024-3400

https://support.citrix.com/article/CTX561482/citrix-adc-and-citrix-gateway-security-bulletin-for-cve20233519-cve20233466-cve20233467

https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2021-26855

https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2021-26857

https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2021-26858

https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2021-27065

https://logging.apache.org/security.html

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https://www.microsoft.com/en-us/security/blog/2025/03/05/silk-typhoon-targeting-it-supply-chain/

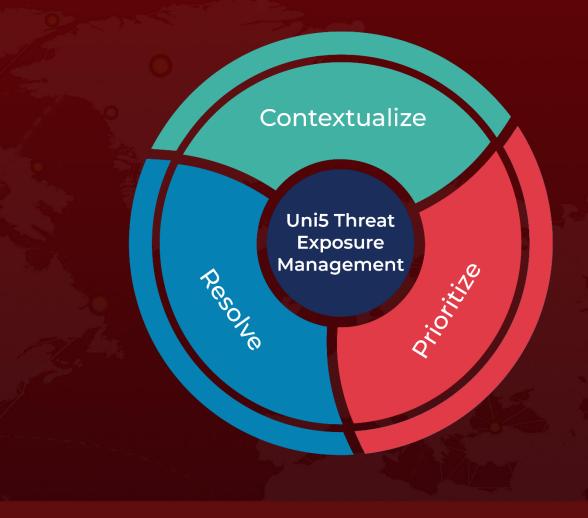
https://www.microsoft.com/en-us/security/security-insider/silk-typhoon#section-master-oc2985

https://attack.mitre.org/groups/G0125/

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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