

Threat Level

HiveForce Labs THREAT ADVISORY

爺 VULNERABILITY REPORT

Lace Tempest Exploits Zero-Day in a Strategic Strike on SysAid

Date of Publication

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Admiralty Code

TA Number TA2023457

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Summary

First Seen: November 2, 2023

Threat Actor: Lace Tempest (aka DEV-0950, FIN11)

- Malware: Clop ransomware, Gracewire (FlawedGrace)
- Affected Product: SysAid servers

Vulnerable Industries: Automation, Healthcare, Human Resources, Higher Education, and Manufacturing

Impact: Lace Tempest has been implicated in exploiting a zero-day vulnerability, identified as CVE-2023-47246. This exploitation allows for the execution of code within SysAid on-premise software, leading to an unauthorized breach of corporate servers. The primary objectives of this breach include data theft and the deployment of the Clop ransomware.

谷 CVES

CVE	NAME	AFFECTED PRODUCT	ZERO- DAY	CISA KEV	РАТСН	
CVE-2023- 47246	SysAid path traversal vulnerability	SysAid: 21.4.45 - 23.3.35	~	⊗	<u>~</u>	•0 • 0

Vulnerability Details

The threat actor, known as Lace Tempest (also referred to as FIN11), has been linked to the exploitation of a zero-day vulnerability identified as CVE-2023-47246. This exploit enables the execution of code within the SysAid on-premise software, providing unauthorized access to corporate servers. The main objectives of this infiltration encompass data theft and the deployment of the notorious Clop ransomware, recognized for exploiting zero-day vulnerabilities in widely used software. Notably, Lace Tempest is the same threat actor responsible for the <u>MOVEit Transfer</u> and <u>GoAnywhere MFT</u> extortion attacks earlier this year.

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The attacker uploaded a Web Archive (WAR) containing a WebShell and additional payloads to the webroot of the SysAid Tomcat web service. The WebShell, in turn, granted the attacker unauthorized access, facilitating the delivery of a PowerShell script designed to execute a loader responsible for deploying the Gracewire trojan.



Following the initial compromise, the attacker systematically removes the payloads used to establish an initial foothold on the compromised servers. Furthermore, the attack sequences are distinguishable by the use of the MeshCentral Agent and PowerShell to download and execute Cobalt Strike, a legitimate post-exploitation framework.

Vulnerabilities

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID	
CVE-2023-47246	SysAid: 21.4.45 - 23.3.35	cpe:2.3:a:sysaid:sysaid:- :*:*:*:*:*:*:*	CWE-22	

Recommendations

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Prioritize Patching: It is strongly recommended that organizations with onpremise SysAid servers promptly apply the vendor-supplied **patches** available in version 23.3.36. Given the potential risks associated with ransomware and extortion attacks, this action should be treated as an emergency measure. Organizations are also encouraged to activate incident response procedures where applicable and to ensure that the SysAid server is not exposed to the public internet.



SysAid Tomcat Webroot Analysis: Regularly inspect the SysAid Tomcat webroot for the presence of unusual files, paying specific attention to WAR, ZIP, or JSP files with atypical timestamps. Conduct thorough scans for unauthorized WebShell files within the SysAid Tomcat service. Scrutinize JSP files for potential malicious content that may indicate a security compromise.

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Process Monitoring: Monitor system logs for unexpected child processes originating from Wrapper.exe, which could be indicative of WebShell usage. Regularly review PowerShell logs for script executions aligning with known attack patterns associated with the identified vulnerability. Keep a vigilant eye on key processes such as spoolsv.exe, msiexec.exe, and svchost.exe for any signs of unauthorized code injection.

Potential <u>MITRE ATT&CK</u> TTPs

<u>TA0042</u>	<u>TA0002</u>	<u>TA0003</u>	<u>TA0005</u>
Resource Development	Execution	Persistence	Defense Evasion
			0
<u>TA0007</u>	<u>TA0008</u>	<u>TA0009</u>	<u>TA0010</u>
Discovery	Lateral Movement	Collection	Exfiltration
<u>TA0011</u>	<u>T1588.006</u>	<u>T1588</u>	<u>T1059.001</u>
Command and Control	Vulnerabilities	Obtain Capabilities	PowerShell
<u>T1543</u>	<u>T1505</u>	<u>T1564</u>	<u>T1059</u>
Create or Modify	Server Software	Hide Artifacts	Command and
System Process	Component		Scripting Interpreter
<u>T1083</u>	<u>T1046</u>	<u>T1057</u>	<u>T1070</u> •0
File and Directory	Network Service	Process Discovery	Indicator Removal
Discovery	Discovery		
<u>T1570</u>	<u>T1213</u>	<u>T1105</u>	<u>T1041</u>
Lateral Tool Transfer	Data from Information	Ingress Tool Transfer	Exfiltration Over C2
	Repositories		Channel

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X Indicators of Compromise (IOCs)

ТҮРЕ	VALUE	
File Name	user.exe	
SHA256	b5acf14cdac40be590318dee95425d0746e85b1b7b1cbd14da66f21f 2522bf4d	0.1
IPv4	81.19.138[.]52, 45.182.189[.]100, 179.60.150[.]34, 45.155.37[.]105	0 0 1 0
File Paths	C:\Program Files\SysAidServer\tomcat\webapps\usersfiles\user.exe, C:\Program Files\SysAidServer\tomcat\webapps\usersfiles.war, C:\Program Files\SysAidServer\tomcat\webapps\leave	01 00

🕸 Patch Details

All users of SysAid are strongly encouraged to transition to version 23.3.36 or a subsequent release.

Link:

https://documentation.sysaid.com/docs/latest-version-installation-files

Stress References

https://www.sysaid.com/blog/service-desk/on-premise-software-security-vulnerabilitynotification

https://www.rapid7.com/blog/post/2023/11/09/etr-cve-2023-47246-sysaid-zero-dayvulnerability-exploited-by-lace-tempest/

https://www.hivepro.com/threat-advisory/clop-ransomware-group-claims-responsibility-forgoanywhere-mft-attacks/

https://www.hivepro.com/threat-advisory/the-exploitation-of-critical-zero-day-vulnerabilityfound-in-moveit-transfer/

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