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Threat Level

Hiveforce Labs THREAT ADVISORY

爺 VULNERABILITY REPORT

Patches Made Available for Vulnerable EoL Zyxel NAS Models

Date of Publication June 05, 2024

Admiralty Code

TA Number TA2024215

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Summary

Discovered: June 2024

Affected Products: Zyxel NAS326 and NAS542

Impact: Zyxel has released patches to address command injection and remote code execution vulnerabilities in two NAS products. The affected models are NAS326 and NAS542. While three critical flaws have been fixed, issues related to privilege escalation and information disclosure remain unresolved in these end-of-life products. The proof of concept (PoC) for these vulnerabilities is now available.

⇔ CVEs

CVE	NAME	AFFECTED PRODUCT	ZERO -DAY	CISA KEV	PATCH		
CVE-2024- 29972	Zyxel NAS Command Injection Vulnerability	NAS326 and NAS542	8	\otimes	\diamond		
CVE-2024- 29973	Zyxel NAS Command Injection Vulnerability	NAS326 and NAS542	8	\otimes	\diamond		
CVE-2024- 29974	Zyxel NAS Remote Code Execution Vulnerability	NAS326 and NAS542	8	\otimes	<u> </u>		
CVE-2024- 29975	Zyxel NAS Improper Privilege Management Vulnerability	NAS326 and NAS542	8	8	8		
CVE-2024- 29976	Zyxel NAS Improper Privilege Management Vulnerability	NAS326 and NAS542	8	8	8		

Vulnerability Details

Zyxel Networks has issued an urgent security update for older NAS devices, specifically the NAS326 and NAS542 models, which have reached the end of their life cycle. This update tackles three critical vulnerabilities that could potentially lead to command injection and remote code execution. However, it's important to note that two vulnerabilities related to privilege escalation and information disclosure have not yet been addressed.

CVE-2024-29972 involves a command injection vulnerability in the "remote_help-cgi" CGI program, allowing unauthenticated attackers to execute OS commands via specially crafted HTTP POST requests. CVE-2024-29973 also concerns command injection, this time in the "setCookie" parameter, enabling unauthenticated attackers to execute OS commands through manipulated HTTP POST requests.

CVE-2024-29974 relates to remote code execution in the "file_upload-cgi" CGI program, allowing unauthenticated attackers to run arbitrary code by uploading a crafted configuration file.

Additionally, CVE-2024-29975 pertains to improper privilege management in the SUID executable binary, permitting authenticated local attackers with admin privileges to execute system commands as the root user. Lastly, CVE-2024-29976 involves improper privilege management in the "show_allsessions" command, enabling authenticated attackers to obtain session information, including cookies, of logged-in administrators.

Despite the end of support for both NAS models on December 31, 2023, Zyxel has released fixes for the three critical flaws in versions 5.21(AAZF.17)C0 for NAS326 and 5.21(ABAG.14)C0 for NAS542. This decision was made due to the severity of vulnerabilities CVE-2024-29972, CVE-2024-29973, and CVE-2024-29974. The proof of concept (PoC) for these vulnerabilities is now accessible.

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID				
CVE-2024- 29972	NAS326 V5.21(AAZF.16)C0 and earlier NAS542 V5.21(ABAG.13)C0 and earlier		CWE-78				
CVE-2024- 29973	NAS326 V5.21(AAZF.16)C0 and earlier NAS542 V5.21(ABAG.13)C0 and earlier	0 and earlier					
CVE-2024- 29974	NAS326 V5.21(AAZF.16)C0 and earlier NAS542 V5.21(ABAG.13)C0 and earlier	cpe:2.3:a:zyxel:nas326: *:*:*:*:*:*:* cpe:2.3:a:zyxel:nas542: *:*:*:*:*:*:*	CWE-434				
CVE-2024- 29975	NAS326 V5.21(AAZF.16)C0 and earlier NAS542 V5.21(ABAG.13)C0 and earlier		CWE-269				
CVE-2024- 29976	NAS326 V5.21(AAZF.16)C0 and earlier NAS542 V5.21(ABAG.13)C0 and earlier		CWE-269				

Vulnerabilities

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Recommendations

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Update: Update to version 5.21(AAZF.17)C0 for NAS326 and 5.21(ABAG.14)C0 for NAS542 to address the three critical vulnerabilities CVE-2024-29972, CVE-2024-29973, and CVE-2024-29974.

Vulnerability Management: Implement a robust vulnerability management process to ensure that software and systems are regularly assessed for vulnerabilities and updated with the required security patches. Prioritize critical vulnerabilities identified by security advisories and vendors to mitigate the risk of exploitation by threat actors.



Least Privilege: Adhere to the idea of "least privilege" by giving users only the essential permissions they need for their tasks. This strategy reduces the effects of vulnerabilities related to privilege escalation.



Implement Web Application Firewall (WAF): Deploy a WAF to monitor and filter incoming web traffic. A properly configured WAF can detect and block attempts to exploit the vulnerabilities, providing an additional layer of protection.

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

TA0042	TA0001	TA0002	TA0004	0-0 0 (
Resource Development	Initial Access	Execution	Privilege Escalation) 1 0 1
TA0006 Credential Access	T1588 Obtain Capabilities	T1588.006 Vulnerabilities	T1059 Command and Scripting Interpreter	
T1068	T1539	T1190	0000111010110	
Exploitation for Privilege	Steal Web Session	Exploit Public-Facing		
Escalation	Cookie	Application		

Signation Patch Details

Zyxel has issued patches to address the three critical vulnerabilities CVE-2024-29972, CVE-2024-29973, and CVE-2024-29974 in versions: 5.21(AAZF.17)C0 for NAS326 and 5.21(ABAG.14)C0 for NAS542

Links:

https://www.zyxel.com/global/en/support/download

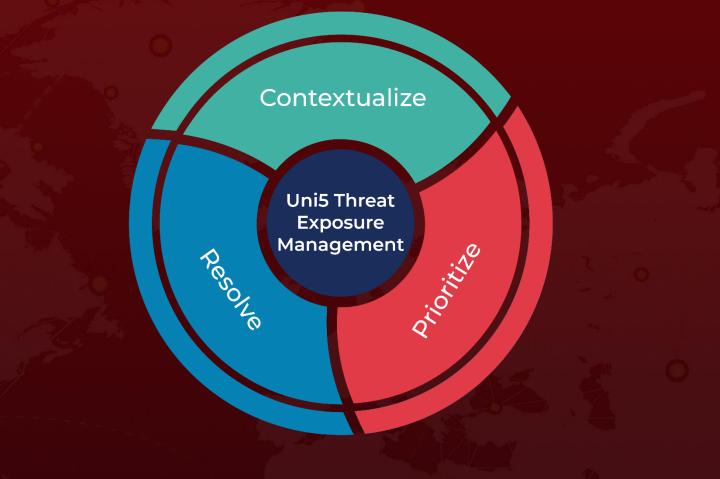
Si References

https://www.zyxel.com/global/en/support/security-advisories/zyxel-security-advisory-formultiple-vulnerabilities-in-nas-products-06-04-2024

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