



# CVE-2020-9054

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF !\[\]\(e3f8612927870f2e0f9f5989e6dd3064\_img.jpg\)](#)

## Summary

<b>CVE</b>	CVE-2020-9054
<b>State</b>	PUBLIC
<b>Assigner</b>	cert@cert.org
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2020-03-04 20:15:00 UTC
<b>Updated</b>	2020-03-06 17:58:00 UTC
<b>Description</b>	Multiple ZyXEL network-attached storage (NAS) devices running firmware version 5.21 contain a pre-authentication comm

## Risk And Classification

**EPSS:** 0.943120000 probability, percentile 0.999490000 (date 2026-04-02)

**CISA KEV:** Listed on 2022-03-25; due 2022-04-15; ransomware use Unknown

**Problem Types:** CWE-78

## CISA Known Exploited Vulnerability

<b>Vendor</b>	Zyxel
<b>Product</b>	Multiple Network-Attached Storage (NAS) Devices
<b>Name</b>	Zyxel Multiple NAS Devices OS Command Injection Vulnerability
<b>Required Action</b>	Apply updates per vendor instructions.
<b>Notes</b>	<a href="https://nvd.nist.gov/vuln/detail/CVE-2020-9054">https://nvd.nist.gov/vuln/detail/CVE-2020-9054</a>

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	<a href="#">Zyxel</a>	<a href="#">Atp100</a>	-	All	All	All
Hardware	<a href="#">Zyxel</a>	<a href="#">Atp100</a>	-	All	All	All
Operating System	<a href="#">Zyxel</a>	<a href="#">Atp100 Firmware</a>	All	All	All	All
Operating System	<a href="#">Zyxel</a>	<a href="#">Atp100 Firmware</a>	All	All	All	All
Hardware	<a href="#">Zyxel</a>	<a href="#">Atp200</a>	-	All	All	All
Hardware	<a href="#">Zyxel</a>	<a href="#">Atp200</a>	-	All	All	All
Operating System	<a href="#">Zyxel</a>	<a href="#">Atp200 Firmware</a>	All	All	All	All
Operating System	<a href="#">Zyxel</a>	<a href="#">Atp200 Firmware</a>	All	All	All	All

Hardware	Zyxel	Atp500	-	All	All	All
Hardware	Zyxel	Atp500	-	All	All	All
Operating System	Zyxel	Atp500 Firmware	All	All	All	All
Operating System	Zyxel	Atp500 Firmware	All	All	All	All
Hardware	Zyxel	Atp800	-	All	All	All
Hardware	Zyxel	Atp800	-	All	All	All
Operating System	Zyxel	Atp800 Firmware	All	All	All	All
Operating System	Zyxel	Atp800 Firmware	All	All	All	All
Hardware	Zyxel	Nas326	-	All	All	All
Hardware	Zyxel	Nas326	-	All	All	All
Operating System	Zyxel	Nas326 Firmware	All	All	All	All
Operating System	Zyxel	Nas326 Firmware	All	All	All	All
Hardware	Zyxel	Nas520	-	All	All	All
Hardware	Zyxel	Nas520	-	All	All	All
Operating System	Zyxel	Nas520 Firmware	All	All	All	All
Operating System	Zyxel	Nas520 Firmware	All	All	All	All
Hardware	Zyxel	Nas540	-	All	All	All
Hardware	Zyxel	Nas540	-	All	All	All
Operating System	Zyxel	Nas540 Firmware	All	All	All	All
Operating System	Zyxel	Nas540 Firmware	All	All	All	All
Hardware	Zyxel	Nas542	-	All	All	All
Hardware	Zyxel	Nas542	-	All	All	All
Operating System	Zyxel	Nas542 Firmware	All	All	All	All
Operating System	Zyxel	Nas542 Firmware	All	All	All	All
Hardware	Zyxel	Usg110	-	All	All	All
Hardware	Zyxel	Usg110	-	All	All	All
Hardware	Zyxel	Usg1100	-	All	All	All
Hardware	Zyxel	Usg1100	-	All	All	All
Operating System	Zyxel	Usg1100 Firmware	All	All	All	All
Operating System	Zyxel	Usg1100 Firmware	All	All	All	All
Operating System	Zyxel	Usg110 Firmware	All	All	All	All
Operating System	Zyxel	Usg110 Firmware	All	All	All	All
Hardware	Zyxel	Usg1900	-	All	All	All
Hardware	Zyxel	Usg1900	-	All	All	All
Operating System	Zyxel	Usg1900 Firmware	All	All	All	All

Operating System	Zyxel	Usg1900 Firmware	All	All	All	All
Hardware	Zyxel	Usg20-vpn	-	All	All	All
Hardware	Zyxel	Usg20-vpn	-	All	All	All
Operating System	Zyxel	Usg20-vpn Firmware	All	All	All	All
Operating System	Zyxel	Usg20-vpn Firmware	All	All	All	All
Hardware	Zyxel	Usg20w-vpn	-	All	All	All
Hardware	Zyxel	Usg20w-vpn	-	All	All	All
Operating System	Zyxel	Usg20w-vpn Firmware	All	All	All	All
Operating System	Zyxel	Usg20w-vpn Firmware	All	All	All	All
Hardware	Zyxel	Usg210	-	All	All	All
Hardware	Zyxel	Usg210	-	All	All	All
Operating System	Zyxel	Usg210 Firmware	All	All	All	All
Operating System	Zyxel	Usg210 Firmware	All	All	All	All
Hardware	Zyxel	Usg2200	-	All	All	All
Hardware	Zyxel	Usg2200	-	All	All	All
Operating System	Zyxel	Usg2200 Firmware	All	All	All	All
Operating System	Zyxel	Usg2200 Firmware	All	All	All	All
Hardware	Zyxel	Usg310	-	All	All	All
Hardware	Zyxel	Usg310	-	All	All	All
Operating System	Zyxel	Usg310 Firmware	All	All	All	All
Operating System	Zyxel	Usg310 Firmware	All	All	All	All
Hardware	Zyxel	Usg40	-	All	All	All
Hardware	Zyxel	Usg40	-	All	All	All
Hardware	Zyxel	Usg40w	-	All	All	All
Hardware	Zyxel	Usg40w	-	All	All	All
Operating System	Zyxel	Usg40w Firmware	All	All	All	All
Operating System	Zyxel	Usg40w Firmware	All	All	All	All
Operating System	Zyxel	Usg40 Firmware	All	All	All	All
Operating System	Zyxel	Usg40 Firmware	All	All	All	All
Hardware	Zyxel	Usg60	-	All	All	All
Hardware	Zyxel	Usg60	-	All	All	All
Hardware	Zyxel	Usg60w	-	All	All	All
Hardware	Zyxel	Usg60w	-	All	All	All
Operating System	Zyxel	Usg60w Firmware	All	All	All	All
Operating System	Zyxel	Usg60w Firmware	All	All	All	All

Operating System	Zyxel	Usg60 Firmware	All	All	All	All
Operating System	Zyxel	Usg60 Firmware	All	All	All	All
Hardware	Zyxel	Vpn100	-	All	All	All
Hardware	Zyxel	Vpn100	-	All	All	All
Hardware	Zyxel	Vpn1000	-	All	All	All
Hardware	Zyxel	Vpn1000	-	All	All	All
Operating System	Zyxel	Vpn1000 Firmware	All	All	All	All
Operating System	Zyxel	Vpn1000 Firmware	All	All	All	All
Operating System	Zyxel	Vpn100 Firmware	All	All	All	All
Operating System	Zyxel	Vpn100 Firmware	All	All	All	All
Hardware	Zyxel	Vpn300	-	All	All	All
Hardware	Zyxel	Vpn300	-	All	All	All
Operating System	Zyxel	Vpn300 Firmware	All	All	All	All
Operating System	Zyxel	Vpn300 Firmware	All	All	All	All
Hardware	Zyxel	Vpn50	-	All	All	All
Hardware	Zyxel	Vpn50	-	All	All	All
Operating System	Zyxel	Vpn50 Firmware	All	All	All	All
Operating System	Zyxel	Vpn50 Firmware	All	All	All	All
Hardware	Zyxel	Zywall110	-	All	All	All
Hardware	Zyxel	Zywall110	-	All	All	All
Hardware	Zyxel	Zywall1100	-	All	All	All
Hardware	Zyxel	Zywall1100	-	All	All	All
Operating System	Zyxel	Zywall1100 Firmware	All	All	All	All
Operating System	Zyxel	Zywall1100 Firmware	All	All	All	All
Operating System	Zyxel	Zywall110 Firmware	All	All	All	All
Operating System	Zyxel	Zywall110 Firmware	All	All	All	All
Hardware	Zyxel	Zywall310	-	All	All	All
Hardware	Zyxel	Zywall310	-	All	All	All
Operating System	Zyxel	Zywall310 Firmware	All	All	All	All
Operating System	Zyxel	Zywall310 Firmware	All	All	All	All

## References

Reference	Source	Link
kb.cert.org/artifacts/cve-2020-9054.html	MISC	<a href="https://kb.cert.org/artifacts/cve-2020-9054.html">kb.cert</a>
Zyxel Fixes 0day in Network Storage Devices — Krebs on Security	MISC	<a href="https://krebsonsecurity.com/2020/09/zyxel-fixes-0day-in-network-storage-devices/">krebso</a>
Zyxel security advisory for the remote code execution vulnerability of NAS and firewall products   Zyxel	CONFIRM	<a href="https://www.zyxel.com/na/en/Security-Advisory/2020-09-01-01.html">www.z</a>

CWE - CWE-78: Improper Neutralization of Special Elements used in an OS Command ('OS Command Injection') (4.9)	MISC	<a href="#">cwe.m</a>
VU#498544 - ZyXEL pre-authentication command injection in weblogin.cgi	CERT-VN	<a href="#">kb.cert</a>
CVE Program record	CVE.ORG	<a href="#">www.c</a>
NVD vulnerability detail	NVD	<a href="#">nvd.nis</a>
CISA Known Exploited Vulnerabilities catalog	CISA	<a href="#">www.c</a>

### Vendor Comments And Credit

#### Discovery Credit

**LEGACY:** Thanks to Alex Holden of Hold Security for finding and reporting this vulnerability.

### Legacy QID Mappings

731233 Zyxel Network Attached Storage (NAS) and Firewall Remote Code Execution (RCE) Vulnerability

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