CVE-2019-12511

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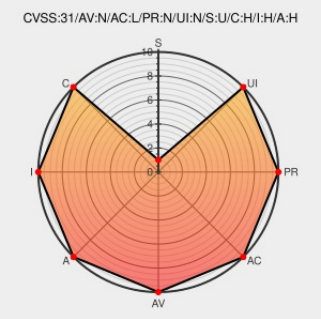

Certain versions of Nighthawk X10-r9000 from Netgear contain the following vulnerability:

In NETGEAR Nighthawk X10-R9000 prior to 1.0.4.26, an attacker may execute arbitrary system commands as root by sending a specially-crafted MAC address to the "NETGEAR Genie" SOAP endpoint at AdvancedQoS:GetCurrentBandwidthByMAC. Although this requires QoS being enabled, advanced QoS being enabled, and a valid authentication JWT, additional vulnerabilities (CVE-2019-12510) allow an attacker to interact with the entire SOAP API without authentication. Additionally, DNS rebinding techniques may be used to exploit this vulnerability remotely. Exploiting this vulnerability is somewhat involved. The following limitations apply to the payload and must be overcome for successful exploitation: - No more than 17 characters may be used. - At least one colon must be included to prevent mangling. - A single-quote and meta-character must be used to break out of the existing command. - Parent command remnants after the injection point must be dealt with. - The payload must be in all-caps. Despite these limitations, it is still possible to gain access to an interactive root shell via this vulnerability. Since the web server assigns certain HTTP headers to environment variables with all-caps names, it is possible to insert a payload into one such header and reference the subsequent environment variable in the injection point.

CVE-2019-12511 has been assigned by cve@mitre.org to track the vulnerability - currently rated as CRITICAL severity.

CVSS3 Score: 9.8 - CRITICAL

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	**Confidentiality Impact**	**Integrity Impact**	**Availability Impact**
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: 9.3 - HIGH

Access Vector	Access Complexity	Authentication
NETWORK	MEDIUM	NONE
Confidentiality Impact	**Integrity Impact**	**Availability Impact**
COMPLETE	COMPLETE	COMPLETE

CVE References

Description	Tags	Link
SOHOpelessly Broken 2.0 - Independent Security Evaluators	Exploit Third Party Advisory www.ise.io text/html	MISC www.ise.io/casestudies/sohopelessly-broken-2-0/

There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Netgear	Nighthawk X10-r9000	-	All	All	All
Hardware	Netgear	Nighthawk X10-r9000	-	All	All	All
Operating System	Netgear	Nighthawk X10-r9000 Firmware	All	All	All	All
Operating System	Netgear	Nighthawk X10-r9000 Firmware	All	All	All	All

cpe:2.3:h:netgear:nighthawk_x10-r9000:-:*:*:*:*:*:*:*:

cpe:2.3:h:netgear:nighthawk_x10-r9000:-:*:*:*:*:*:*:*:

cpe:2.3:o:netgear:nighthawk_x10-r9000_firmware:*:*:*:*:*:*:*:*:

cpe:2.3:o:netgear:nighthawk_x10-r9000_firmware:*:*:*:*:*:*:*:*:

No vendor comments have been submitted for this CVE

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CVE.report and Source URL Uptime Status status.cve.report