



CVE-2022-39243

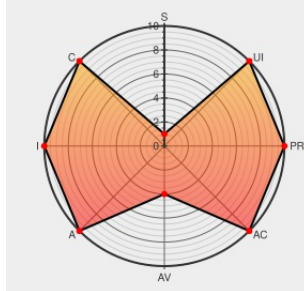
Published on: Not Yet Published

Last Modified on: 07/13/2023 05:24:00 PM UTC

CVE-2022-39243 - advisory for GHSA-cxgf-v2p8-7ph7

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:L/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H



Certain versions of [Linux Kernel](#) from [Linux](#) contain the following vulnerability:

NuProcess is an external process execution implementation for Java. In all the versions of NuProcess where it forks processes by using the JVM's `Java_java_lang_UNIXProcess_forkAndExec` method (1.2.0+), attackers can use NUL characters in their strings to perform command line injection. Java's `ProcessBuilder` isn't vulnerable because of a check in `ProcessBuilder.start`. NuProcess is missing that check. This vulnerability can only be exploited to inject command line arguments on Linux. Version 2.0.5 contains a patch. As a workaround, users of the library can sanitize command strings to remove NUL characters prior to passing them to NuProcess for execution.

CVE-2022-39243 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **CRITICAL** severity.

Affected Vendor/Software: [brettwooldridge](#) - NuProcess version $\geq 1.2.0$, $< 2.0.5$

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

CVE References

Description	Tags	Link
Command-line injection through insertion of NUL character(s) · Advisory · brettwooldridge/NuProcess · GitHub	github.com text/html	CONFIRM github.com/brettwooldridge/NuProcess/security/advisories/GHSA-cxgf-v27ph7
Null injection hardening by	github.com	MISC github.com/brettwooldridge/NuProcess/pull/143

Null injection hardening by
benhumphreys · Pull Request #143 ·
brettwooldridge/NuProcess · GitHub

github.com

text/html

MISC

github.com/brettwooldridge/NuProcess/pull/143

Merge pull request #143 from
benhumphreys/harden-null-injection ·
brettwooldridge/NuProcess@29bc09d
· GitHub

github.com

text/html

MISC

github.com/brettwooldridge/NuProcess/commit/29bc09de561bf00f9bf77123756363a97

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Linux	Linux Kernel	-	All	All	All
Application	Nuprocess Project	Nuprocess	All	All	All	All

cpe:2.3:o:linux:linux_kernel:-:*:*:*:*:*:

cpe:2.3:a:nuprocess_project:nuprocess:*:*:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-39243 : NuProcess is an external process execution implementation for Java. In all the versions of NuProce... twitter.com/i/web/status/1...	2022-09-26 13:30:44
@Robo_Alerts	Potentially Critical CVE Detected! CVE-2022-39243 NuProcess is an external process execution implementation for Jav... twitter.com/i/web/status/1...	2022-09-26 14:56:02
/r/netcve	CVE-2022-39243	2022-09-26 14:38:52

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