



CVE-2022-36009

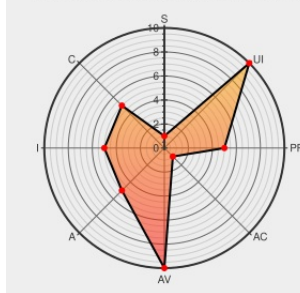
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CVE-2022-36009 - advisory for GHSA-grvv-h2f9-7v9c

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

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



Certain versions of [Dendrite](#) from [Matrix](#) contain the following vulnerability:

gomatrixserverlib is a Go library for matrix protocol federation. Dendrite is a Matrix homeserver written in Go, an alternative to Synapse. The power level parsing within gomatrixserverlib was failing to parse the `"events_default"` key of the ``m.room.power_levels`` event, defaulting the event default power level to zero in all cases. Power levels are the matrix terminology for user access level. In rooms where the `"events_default"` power level had been changed, this could result in events either being incorrectly authorised or rejected by Dendrite servers. gomatrixserverlib contains a fix as of commit ``723fd49`` and Dendrite 0.9.3 has been updated accordingly. Matrix rooms where the `"events_default"` power level has not been changed from the default of zero are not vulnerable. Users are advised to upgrade. There are no known workarounds for this issue.

CVE-2022-36009 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [matrix-org](#) - [gomatrixserverlib](#) version < 0.9.3 for dendrite

Affected Vendor/Software: [matrix-org](#) - [gomatrixserverlib](#) version < 723fd49 for gomatrixserverlib

CVSS3 Score: **8.8 - HIGH**

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

CVE References

Description	Tags	Link
Incorrect parsing of the event default power	github.com	CONFIRM github.com/matrix-

[org/gomatrixserverlib/security/advisories/GHSA-grvv-h2f9-7v9c](https://github.com/gomatrixserverlib/security/advisories/GHSA-grvv-h2f9-7v9c)

MISC github.com/matrix-org/gomatrixserverlib/commit/723fd495dde835d078b9f2074b6b62c06dea4575

[m] [MISC matrix.org/docs/guides/moderation/#power-levels](https://matrix.org/docs/guides/moderation/#power-levels)

There are currently no QIDs associated with this CVE

Type	Vendor	Product	Version	Update	Edition	Language
Application	Matrix	Dendrite	All	All	All	All
Application	Matrix	Gomatrixserverlib	-	All	All	All
cpe:2.3:a:matrix:dendrite:*:*:*:*:*:						
cpe:2.3:a:matrix:gomatrixserverlib:-:*:*:*:*:						

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2022-36009 : gomatrixserverlib is a Go library for matrix protocol federation. Dendrite is a Matrix homeserver... twitter.com/i/web/status/1...	2022-08-19 20:38:37
 /r/netcve	CVE-2022-36009	2022-08-19 21:38:35

Next ID→

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