



CVE-2021-41281

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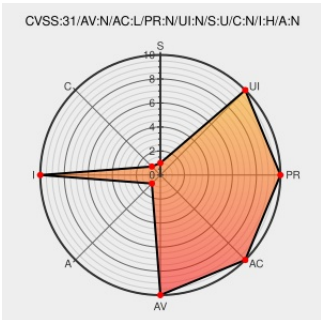
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CVE-2021-41281 - advisory for GHSA-3hfw-x7gx-437c

Source: Mitre

Source: Nist

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

Synapse is a package for Matrix homeservers written in Python 3/Twisted. Prior to version 1.47.1, Synapse instances with the media repository enabled can be tricked into downloading a file from a remote server into an arbitrary directory. No authentication is required for the affected endpoint. The last 2 directories and file name of the path are

chosen randomly by Synapse and cannot be controlled by an attacker, which limits the impact. Homeservers with the media repository disabled are unaffected. Homeservers with a federation whitelist are also unaffected, since Synapse will check the remote hostname, including the trailing `..^`s, against the whitelist. Server administrators should upgrade to 1.47.1 or later. Server administrators using a reverse proxy could, at the expense of losing media functionality, may block the certain endpoints as a workaround. Alternatively, non-containerized deployments can be adapted to use the hardened systemd config.

CVE-2021-41281 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: **matrix-org** - **synapse** version < 1.47.1

CVSS3 Score: **7.5 - HIGH**

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

CVSS2 Score: **4.3 - MEDIUM**

Access Vector	Access Complexity	Authentication
NETWORK	MEDIUM	NONE

Confidentiality Impact	Integrity Impact	Availability Impact
NONE	PARTIAL	NONE

CVE References

Description	Tags	Link
Prevent the media store from writing outside of the configured directory · matrix-org/synapse@91f2bd0 · GitHub	github.com text/html	MISC github.com/matrix-org/synapse/commit/91f2bd090
Release v1.47.1 · matrix-org/synapse · GitHub	github.com text/html	MISC github.com/matrix-org/synapse/releases/tag/v1.47.1
Path traversal when downloading remote media · Advisory · matrix-org/synapse · GitHub	github.com text/html	CONFIRM github.com/matrix-org/synapse/security/advisories/GHSA-3hfw-x7gx-437c

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Related QID Numbers

- [690482](#) Free Berkeley Software Distribution (FreeBSD) Security Update for py-matrix-synapse (27aa2253-4c72-11ec-b6b9-e86a64caca56)
- [980024](#) Python (pip) Security Update for matrix-synapse (GHSA-3hfw-x7gx-437c)

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Matrix	Synapse	All	All	All	All
cpe:2.3:a:matrix:synapse:*****:						

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2021-41281 : Synapse is a package for Matrix homeservers written in Python 3/Twisted. Prior to version 1.47.1,... twitter.com/i/web/status/1...	2021-11-23 19:53:35
@LinInfoSec	Python - CVE-2021-41281: github.com/matrix-org/syn...	2021-11-23 21:36:15

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