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New issue



# Multiple tarfile extraction filter bypasses (`filter="tar"`/`filter="data"`) #135034

Closed

Labels

triaged

type-security



sethmlarson opened on Jun 2, 2025 · edited by encukou

Edits ▾

Contributor



## Bug description:

Public issue for fixing [CVE-2025-4517](#), [CVE-2025-4330](#), [CVE-2025-4138](#), and [CVE-2024-12718](#). [See full advisory on security-announce](#).

[edit @encukou]: Also addresses [CVE-2025-4435](#). Sorry for leaving that out of the commit messages.

## CPython versions tested on:

CPython main branch

## Operating systems tested on:

*No response*

## Linked PRs

- [gh-135034: Normalize link targets in tarfile, add `os.path.realpath\(strict='allow\_missing'\)` #135037](#)
- [\[3.13\] gh-135034: Normalize link targets in tarfile, add `os.path.realpath\(strict='allow\_missing'\)` \(GH-135037\) #135064](#)
- [\[3.14\] gh-135034: Normalize link targets in tarfile, add `os.path.realpath\(strict='allow\_missing'\)` \(gh-135037\) #135065](#)
- [\[3.12\] gh-135034: Normalize link targets in tarfile, add `os.path.realpath\(strict='allow\_missing'\)` \(GH-135037\) #135066](#)

- [\[3.11\] gh-135034: Normalize link targets in tarfile, add `os.path.realpath\(strict='allow\_missing'\)` \(GH-135037\) #135068](#)
- [\[3.10\] gh-135034: Normalize link targets in tarfile, add `os.path.realpath\(strict='allow\_missing'\)` \(GH-135037\) #135070](#)
- [\[3.9\] gh-135034: Normalize link targets in tarfile, add `os.path.realpath\(strict='allow\_missing'\)` \(GH-135037\) #135084](#)
- [\[3.12\] gh-135034: Remove test\\_realpath\\_permission #135093](#)

👁 2

**sethmlarson** added **type-security** on Jun 2, 2025

**picnixz** added **triaged** on Jun 2, 2025

**ambv** mentioned this on Jun 2, 2025

[\[3.9\] bpo-43757: Make pathlib use os.path.realpath\(\) to resolve symlinks in a path \(GH-25264\) #135035](#)

**ambv** added a commit that references this issue on Jun 2, 2025

[pythongh-135034](#): Normalize link targets in tarfile, add ``os.path.real. ...` 0c16f5f

**bedevere-app** mentioned this on Jun 2, 2025

[gh-135034: Normalize link targets in tarfile, add `os.path.realpath\(strict='allow\_missing'\)` #135037](#)

**Yhg1s** added 2 commits that reference this issue on Jun 3, 2025

[gh-135034](#): Normalize link targets in tarfile, add ``os.path.realpath(s. ...` 3612d8f

[\[3.13\] pythongh-135034: Normalize link targets in tarfile, add ``os.pa. ...` 2637f45](#)

**bedevere-app** mentioned this on Jun 3, 2025

[\[3.13\] gh-135034: Normalize link targets in tarfile, add `os.path.realpath\(strict='allow\_missing'\)` \(GH-135037\) #135064](#)

**ambv** added a commit that references this issue on Jun 3, 2025

[pythongh-135034](#): Normalize link targets in tarfile, add ``os.path.real. ...` 553d40f

**bedevere-app** mentioned this [on Jun 3, 2025](#)

[\[3.14\] gh-135034: Normalize link targets in tarfile, add os.path.realpath\(strict='allow\\_missing'\)](#) (gh-135037) #135065

**Yhg1s** added a commit that references this issue [on Jun 3, 2025](#)

[3.12] [pythongh-135034](#): Normalize link targets in tarfile, add `os.pa. c358142

**bedevere-app** mentioned this [on Jun 3, 2025](#)

[\[3.12\] gh-135034: Normalize link targets in tarfile, add os.path.realpath\(strict='allow\\_missing'\)](#) (GH-135037) #135066

**Yhg1s** added a commit that references this issue [on Jun 3, 2025](#)

[3.11] [pythongh-135034](#): Normalize link targets in tarfile, add `os.pa. 371b4ea

**bedevere-app** mentioned this [on Jun 3, 2025](#)

[\[3.11\] gh-135034: Normalize link targets in tarfile, add os.path.realpath\(strict='allow\\_missing'\)](#) (GH-135037) #135068

**Yhg1s** added a commit that references this issue [on Jun 3, 2025](#)

[3.10] [pythongh-135034](#): Normalize link targets in tarfile, add `os.pa. 4d959a0

910 remaining items



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### Metadata

#### Assignees

No one assigned

#### Labels

triaged

type-security

**Projects**

No projects

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**Milestone**

No milestone

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**Relationships**

None yet

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**Development**

No branches or pull requests

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**Participants**

