

python / cpython Public

[Code](#) [Issues](#) 5k+ [Pull requests](#) 2.2k [Actions](#) [Projects](#) [Security and q](#)

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`...

**Verified** 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`...

**Partially verified** 3612d8f

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

**Partially verified** 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`...

**Partially verified** 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

895 remaining items



Load more

**github-actions** mentioned this in 15 issues [2 days ago](#)

- [Directory Traversal SNYK-RHEL9-PYTHON3-10415856 RADAR-base/radar-helm-charts#9188](#)
- [Directory Traversal SNYK-RHEL9-PYTHON3-10415394 RADAR-base/radar-helm-charts#9189](#)
- [Use of Incorrectly-Resolved Name or Reference SNYK-RHEL9-PYTHON3-10415440 RADAR-base/radar-helm-charts#9191](#)
- [Directory Traversal SNYK-RHEL9-PYTHON3-10415579 RADAR-base/radar-helm-charts#9193](#)
- [Directory Traversal SNYK-RHEL9-PYTHON3-10415856 RADAR-base/radar-helm-charts#9195](#)
- [Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10409389 RADAR-base/radar-helm-charts#9197](#)
- [Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10415372 RADAR-base/radar-helm-charts#9199](#)

- ◉ [Use of Incorrectly-Resolved Name or Reference SNYK-RHEL9-PYTHON3LIBS-10415418 RADAR-base/radar-helm-charts#9201](#)
- ◉ [Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10409389 RADAR-base/radar-helm-charts#9202](#)
- ◉ [Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10415581 RADAR-base/radar-helm-charts#9203](#)
- ◉ [Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10415372 RADAR-base/radar-helm-charts#9204](#)
- ◉ [Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10415830 RADAR-base/radar-helm-charts#9205](#)
- ◉ [Use of Incorrectly-Resolved Name or Reference SNYK-RHEL9-PYTHON3LIBS-10415418 RADAR-base/radar-helm-charts#9206](#)
- ◉ [Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10415581 RADAR-base/radar-helm-charts#9208](#)
- ◉ [Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10415830 RADAR-base/radar-helm-charts#9210](#)

[Sign up for free](#) to join this conversation on [GitHub](#). Already have an account? [Sign in to comment](#)

## Metadata

### Assignees

No one assigned

### Labels

triaged

type-security

### Projects

No projects

### Milestone

No milestone

### Relationships

None yet

### Development

No branches or pull requests

### Participants

