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# gh-135034: Normalize link targets in tarfile, add `os.path.realpath(strict='allow_missing')` #135037

Merged Yhg1s merged 20 commits into `python:main` from `ambv:gh-135034` on Jun 3, 2025

Conversation 23 Commits 20 Checks 57 Files changed 11



ambv commented on Jun 2, 2025 • edited by encukou

Contributor

Addresses CVEs 2024-12718, 2025-4138, 2025-4330, and 2025-4517.

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

Co-authored-by: Petr Viktorin [encukou@gmail.com](mailto:encukou@gmail.com)

Signed-off-by: Łukasz Langa [lukasz@langa.pl](mailto:lukasz@langa.pl)

- Issue: [Multiple tarfile extraction filter bypasses \( `filter="tar"` / `filter="data"` \) #135034](#)

Documentation preview <https://cpython-previews--135037.org.readthedocs.build/>

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

ambv requested a review from ethanfurman as a `code owner` 11 months ago

bedevere-app Bot added the `awaiting core review` label on Jun 2, 2025

**bedevere-app** (Bot) mentioned this pull request [on Jun 2, 2025](#)

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

Closed

**ambv** and others added 2 commits [11 months ago](#)

[Fix lint](#) ✖ [335921b](#)

[Add blurb](#) ✖ [fcefa72](#)

**serhiy-storchaka** commented [on Jun 2, 2025](#)

Member

See also [#71189](#).

[Fix test\\_tarfile on WASI](#) ✖ [9c275a7](#)

**ambv** [force-pushed](#) the `gh-135034` branch from `d25f924` to `9c275a7` [11 months ago](#) Compare

[Remove spurious line](#) ✖ [b59eaaa](#)

**AA-Turner** reviewed [on Jun 2, 2025](#)

[View reviewed changes](#)

> `Lib/test/test_tarfile.py` Outdated

Show resolved

**ambv** and others added 3 commits [11 months ago](#)

[Fix invalid parent directory unwinding in test](#) ✖ [fd5ba13](#)

[Make tests more chatty](#) ✖ [aeebdc8](#)

[Use a better skip](#) ✖ [f5544e6](#)

 **encukou** reviewed [on Jun 2, 2025](#)

[View reviewed changes](#)

> `Lib/test/test_tarfile.py` Outdated

 [Show resolved](#)

 **encukou** reviewed [on Jun 2, 2025](#)

[View reviewed changes](#)

> `Lib/test/test_ntpath.py` Outdated

 [Show resolved](#)

**encukou** commented [on Jun 2, 2025](#)

Member

See also [#71189](#).

To align with this, there'd be a `ntpath.ALLOW_MISSING` singleton rather than an `'allow_missing'` string. That's possible, of course. It can catch typos. But I don't think it's worth having to import an extra name.


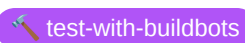
 **ambv** and others added 2 commits [11 months ago](#)

  [Work around Windows test failures](#)



✖ [3c5ed15](#)

  [Add ERROR\\_ACCESS\\_DENIED](#)

✖ [5af66c6](#)

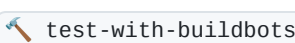
  **encukou** added the  label [on Jun 2, 2025](#)

**bedevere-bot** commented [on Jun 2, 2025](#)

 New build scheduled with the buildbot fleet by [@encukou](#) for commit [5af66c6](#) 

Results will be shown at:

<https://buildbot.python.org/all/#/grid?branch=refs%2Fpull%2F135037%2Fmerge>

If you want to schedule another build, you need to add the  label again.

**bedevere-bot** removed the `test-with-buildbots` label on [Jun 2, 2025](#)

**encukou** and others added 7 commits [11 months ago](#)

- [Switch to singleton](#) a124c42
- [Add ENAMETOOLONG to expected failures. And an extra subTest.](#) 5bf4a48
- [Discard more special files](#) 3b54acd
- [Use shorter names on Android](#) ✗ [7ff96a2](#)
- [Fix docs warning](#) ✓ [f845343](#)
- [Attempt to restore ntpath test](#) ✗ [fd2013a](#)
- [Revert "Attempt to restore ntpath test"](#) ✗ [f8f2786](#)

**encukou** added the `test-with-buildbots` label on [Jun 3, 2025](#)

1710 hidden items

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**Directory Traversal SNYK-RHEL9-PYTHON3-10415856** [RADAR-base/radar-helm-charts#9188](#)



**Directory Traversal SNYK-RHEL9-PYTHON3-10415394** [RADAR-base/radar-helm-charts#9189](#)



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**Use of Incorrectly-Resolved Name or Reference SNYK-RHEL9-PYTHON3LIBS-10415418** [RADAR-base/radar-helm-charts#9201](#)



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**Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10415581** [RADAR-base/radar-helm-charts#9208](#)



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Reviewers

encukou

AA-Turner

ethanfurman



Assignees

Yhg1s

Labels

None yet

Projects

None yet

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### Milestone

No milestone

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### Development

Successfully merging this pull request may close these issues.

None yet

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### 7 participants

