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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

Signed-off-by: Łukasz Langa 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...` 0c16f5f

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 `Lib/test/test_tarfile.py` Outdated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 `Lib/test/test_tarfile.py` Outdated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 `Lib/test/test_ntpath.py` Outdated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.


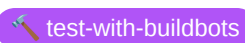
 **ambv** and others added 2 commits [11 months ago](#)

  [Work around Windows test failures](#)



 [3c5ed15](#)

  [Add ERROR_ACCESS_DENIED](#)

 [5af66c6](#)

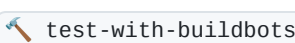
  **encukou** added the  label [on Jun 2, 2025](#)

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](#)

1695 hidden items

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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

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

7 participants

