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 `Lib/test/test_tarfile.py` Outdated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 `Lib/test/test_tarfile.py` Outdated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 `Lib/test/test_ntpath.py` Outdated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


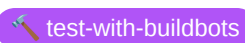
 **ambv** and others added 2 commits [11 months ago](#)

  [Work around Windows test failures](#)



✖ [3c5ed15](#)

  [Add ERROR_ACCESS_DENIED](#)

✖ [5af66c6](#)

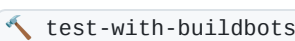
  **encukou** added the  label [on Jun 2, 2025](#)

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](#)

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Closed

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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](#)



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Directory Traversal SNYK-RHEL9-PYTHON3LIBS-10415830 [RADAR-base/radar-helm-charts#9205](#)



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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

