

🏠 pypa / pip Public

<> Code Issues 934 **Pull requests** 114 Actions Projects Security and q

# Split the pip self-version check to get info before run #13923

**Merged**

**notatallshaw** merged 4 commits into `pypa:main` from

`notatallshaw:self-check-before-in...` 3 days ago

💬 Conversation 15

🔗 Commits 4

📄 Checks 35

📁 Files changed 9



**notatallshaw** commented last week

Member

This means that everything that needs lazily importing is done before installation happens, while still not importing the network stack for uninstall and list ([#12637](#))



**psf-chronographer** (Bot) added the `bot:chronographer:provided` label last week



**notatallshaw** mentioned this pull request last week

## Fix hang in broken-stdout handler when stderr pipe is full #13927

**Merged**



**notatallshaw** force-pushed the `self-check-before-install` branch 2 times, most recently from `195cca2` to `af592ca` last week

[Compare](#)



**notatallshaw** added this to the **26.1** milestone last week



**notatallshaw** added 2 commits last week



Split the pip self-version check to get info before run

8786d08

Trivial news entry ✓ [946120b](#)

**notatallshaw** force-pushed the `self-check-before-install` branch from `0ee71fd` to `946120b` Compare  
last week

**ichard26** requested changes [last week](#)

[View reviewed changes](#)

> `src/pip/_internal/self_outdated_check.py` ⌵ Show resolved

> `src/pip/_internal/self_outdated_check.py` Outdated ⌵ Show resolved

> `src/pip/_internal/self_outdated_check.py` Outdated ⌵ Show resolved

**notatallshaw** added 2 commits [5 days ago](#)

Address review on self-check split ✗ [378af64](#)

Merge branch 'main' into self-check-before-install ✓ [5f6eb04](#)

**notatallshaw** commented [5 days ago](#) Member Author

Thanks [@ichard26](#) , I believe I've addressed all your issues. Thanks for catching the dead code, I'd tried a few different approaches and apparently hadn't done a thorough enough clean up.

**sbidoul** commented [3 days ago](#) Member

I won't have time to review this before the release. Do you still want it in 26.1? How risky is it?

**notatallshaw** commented [3 days ago](#) • edited Member Author

Do you still want it in 26.1?

Yes.

How risky is it?

Touching the self update check code has historically reared unexpected issue. I've done my absolute best to validate all the issues we've seen in the past (different upgrade/downgrade paths).

Frankly though, if this PR is considered too risky I think we should disable the self update check, at least for 26.1, it's a one-line change.



**ichard26** approved these changes [3 days ago](#)

[View reviewed changes](#)

Member

**ichard26** commented [3 days ago](#)

How risky is it?

Given the core logic is wrapped defensively in a try except, I think it'll be fine...?

I tested how it'd handle non-standard indices and an no/bad internet connection and it seemed fine.

Also, the last issue we had with the self check involved pip replacing itself. Given we're now blocking it from running whenever a `pip` requirement is given eliminates that class of issues.

Member

Author

**notatallshaw** commented [3 days ago](#)

I did an extra pass on validating this doesn't create any new errors, I did find some existing bugs which I will put on my to do list as a follow up, but nothing new.



**notatallshaw** merged commit `b369bfc` into `pypa:main` [3 days ago](#)

62 of 71 checks passed

[View details](#)



**notatallshaw** mentioned this pull request [2 days ago](#)

**[Warn on unexpected imports during install #13912](#)**

Merged

**westurner** commented [5 hours ago](#)

## 1. Add an env argument way to skip the pip update check?

- Should there be - or is there already - an env argument way to skip this update check?
  - yes; there should be a way
    - use cases
      - closed-loop, self-hosted
      - third-party index servers only
      - `python -m ensurepip`

Note: This module does not access the internet. All of the components needed to bootstrap pip are included as internal parts of the package.

<https://docs.python.org/3/library/ensurepip.html>

## 2. Update the `ensurepip` copy of pip

- `python -m ensurepip -U/--upgrade`
- "Update strategy for pip in ensurepip (for security maintenance releases) - Core Development" (2024) <https://discuss.python.org/t/update-strategy-for-pip-in-ensurepip-for-security-maintenance-releases/50316>
- [https://sourceforge.net/p/upgrade-ensurepip/code/ci/default/tree/upgrade\\_ensurepip.py](https://sourceforge.net/p/upgrade-ensurepip/code/ci/default/tree/upgrade_ensurepip.py) (2020)
- the tool or the maintainer must check the checksum and the
- there is an Integrity API to check instead of checking GPG signatures and (pip) release signing keys? <https://blog.pypi.org/posts/2024-11-14-pypi-now-supports-digital-attestations/>
- does `pip download pip` verify the Integrity API signature of pip sufficiently for repacking pip as the `ensurepip` module in `stdlib`?

**notatallshaw** commented [5 hours ago](#)

Member

Author

Do you have a specific issue? If so please open a new issue.

`PIP_DISABLE_PIP_VERSION_CHECK=1` should work to disable pips version check.



1

**westurner** commented [3 hours ago](#)

Does the copy of pip that ships with Python need to be updated too?

Member

**ichard26** commented [1 hour ago](#)

Yes, but that will be occur at a future date. [#13795](#) will contain the most up to date details.

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### Reviewers

 **ichard26** ✓

### Assignees

No one assigned

### Labels

bot:chronographer:provided

### Projects

None yet

### Milestone

26.1

### Development

Successfully merging this pull request may close these issues.

None yet

### 4 participants

