

Attack vector:

An user accessing a (possibly remote) subversion repository that provides malicious "info" data. Or an attacker injecting 'svn ls http://...' output (less realistic).

Fix:

Use a pattern with non-overlapping groups. I can help in finding a better regex and testing if needed.





bluetech commented on Oct 16

Member

I doubt there's anyone using this code, so I don't think it would warrant any sort of security notification that users should bother with, but if you prepare a PR for this I'll merge & release it.



skialpine commented on Oct 18

GHSA-w596-4wvx-j9j6 https://nvd.nist.gov/vuln/detail/CVE-2022-42969

jenstroeger commented on Oct 19

As @skialpine mentions, the advisory now triggers pip-audit and thus can fail CI runs (like this one).

Is there a fix on the horizon?

RonnyPfannschm... commented on Oct 19

Member

The issue is not considered critical, im not aware of anyone working towards a fix

The-Compiler commented on Oct 19 • edited •

Member

Well, congratulations to whoever it is that decided that the right path of action here is getting a CVE for...

- Something that seems very questionable to be titled a "vulnerability" in the first place (if I can control an SVN repo/server, I might as well just Slowloris the initial info request, I suppose... though admittedly I didn't try that.)
- For some ~18 year old code...
- ...which is only there for historical reasons and discouraged to use
- ...which, to the best of our knowledge, is not used anywhere in the wild outside of some old PyPy development scripts nobody probably uses anymore (and certainly not against random SVN servers). Note the search results seem to be copies of those PyPy scripts, as far as I can tell.
- ...which, given the above, nobody is terribly interested in maintaining
- ...yet you ended up generating nothing but noise for hundreds of thousands of pytest users, which for historical reasons depends on pylib (since it came from the PyPy project, like pylib does). Yes, not everyone of the half quarter a million projects there will monitor CVEs against dependencies, but at the same time, lots of people that do (in companies and such) are probably not in that list on GitHub.

Given that it will still take some time for pytest to get fully rid of it's py internals, and people seem to like getting CVEs for this project (which just happens to be very popular via pytest, but pretty much unused outside of pytest), but without really making an attempt to understanding the context... can we please consider:

- Either vendoring the remaining code (py.path | lassume) in pytest, and archiving pylib...
- ...or releasing a pylib 2.0.0 which simply drops all the code that isn't used in pytest?

Sorry if I sound frustrated. But requesting a CVE without understanding the context of the project/issue you're reporting, and then generating false reports for hundreds of thousands of pytest users is doing a major disservice to both pytest/pylib maintainers and all those users.



M The-Compiler mentioned this issue on Oct 19

CVE-2022-42969: security issue in library py used by this project pytest-dev/pytest#10392



RonnyPfannschm... commented on Oct 19

Member

I'd go as far as to label this cve report a supply chain attack

Pytest should keep dropping pylib as it does

The cve should be added as common false positive





The-Compiler commented on Oct 19

Member

I'd go as far as to label this cve report a supply chain attack

I would not, but I'd certainly add it to my "examples of behavior causing open source maintainer burnout" list, given that we're now getting the first pytest issue about this, and it almost certainly won't be the last one.

The-Compiler mentioned this issue on Oct 19 C_{λ}

[GHSA-w596-4wvx-j9j6] ReDoS in py library github/advisory-database#761



I should have known better that this was going to happen when I replied as I did...

If someone can get the notification retracted that'd be best.

But I guess since they've already put out a security notification to the entire world and their grandmother through GitHub, the path of least resistence would be to issue a release to fix this "security issue". I'll try to do it today.





RonnyPfannschm... commented on Oct 19

Member

@bluetech @The-Compiler i woudnt mind to cut a release that drops the svn wc stuff alltogether

The-Compiler mentioned this issue on Oct 19

Plan for dropping/deprecating submodules of py and releasing v2.0 #288



The-Compiler commented on Oct 19

Member

@RonnyPfannschmidt agreed, and perhaps a bit more even - I opened #288 with some overview on that.

The-Compiler commented on Oct 19

Member

FWIW, I've also proposed adding a note to the GitHub advisory (github/advisory-database#761) and tweeted a PSA.





shirayu mentioned this issue on Oct 19

CVE-2022-42969 shirayu/whispering#40

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The-Compiler commented on Oct 19

Member

GitHub have now reacted and amended the advisory:

The particular codepath in question is the regular expression at py._path.svnurl.InfoSvnCommand.lspattern and is only relevant when dealing with subversion (svn) projects. Notablely the codepath is not used in the popular pytest project.

and apparently also added that information for Dependabot alerts:

I've also added the codepath to the advisory so that dependabot can more intelligently target alerts.

woodruffw commented on Oct 19

pip-audit maintainer here. I have no say in it, but it's a shame (in my personal opinion) that this kind of low-quality finding was assigned a CVE ID without any significant cross-checking.

I've filed a CVE rejection request with MITRE, since they're the CVE CNA in this case. If they successfully reject it, getting it removed from GHSA should also be easy.



woodruffw commented on Oct 19

Actually, looks like I'll be able to propose a GHSA withdrawal even if the CVE itself hasn't been retracted. I'll open a PR for that in a moment.



woodruffw mentioned this issue on Oct 19

GHSA-w596-4wvx-j9j6: mark as withdrawn github/advisory-database#762

I ♯ Closed

woodruffw commented on Oct 19

I've filed github/advisory-database#762 to mark the GHSA report as withdrawn.

This was referenced on Oct 19

Skip vulnerability reports that are marked as "withdrawn" pypa/pip-audit#385



Contested advisory: GHSA-w596-4wvx-j9j6 / CVE-2022-42969 pypa/advisory-database#104



jenstroeger commented on Oct 20 • edited ▼

@The-Compiler agreeable and funny #287 (comment)



@woodruffw thanks for following up on the advisory! That means that pip-audit won't pick up that CVE any longer once pypa/pip-audit#385 has merged, correct?





RonnyPfannschmidt mentioned this issue on Oct 20

RFE: Replace use of pkg resources with importlib.metadata #282



woodruffw commented on Oct 20

@woodruffw thanks for following up on the advisory! That means that pip-audit won't pick up that CVE any longer once pypa/pip-audit#385 has merged, correct?

Once that's merged and the OSV entry is marked as withdrawn, yeah.



Denelvo commented on Oct 21

@The-Compiler @bluetech @woodruffw & other maintainers: don't sweat it! Even though 18 years ago, someone wrote a regex, not thinking of 2022-levels of security paranoia, your efforts are still very much appreciated and your contributions are incredibly productive.

The CVE did trigger some alarms in builds of valuable systems used by financial institutions. But that's good. It doesn't necessarily mean that pytest is suddenly unusable. It just forces downstream developers in highly secured places to stop and think. Alerts can be ignored, assessed, categorized, accepted,...

Please look at CVEs as mostly just a catalyst. Having the CVE removed is a harsh reaction, but the right one if we're absolutely sure that that particular regex is not exploitable. But try to think of it from the point of view of a security officer, with full paranoia goggles on (and no intimate knowledge of the module). The regex is present in the code. It could be executed. A hacker could penetrate, set up a SVN repo, craft some commands, take advantage of other existing vulnerabilities on the system,... You have to think worst case and then some.

In the end, I think a correctly worded CVE with a low severity score which clearly includes all the IFs, would have been the best option here.

Thanks!





The-Compiler commented on Oct 21

Member

Taking the freedom to quote what I wrote over at github/advisory-database#762 (comment):

but to my eye the advisory is in fact talking about a real redos vulnerability. I do understand the annoyance with what you call CVE spam, but if the advisory is valid then we want to include it in our data set.

In theory, when viewed in a vacuum: indeed.

However, even a very broad search on GitHub for the affected code yields 92 results. I've looked through them all, and from what I can tell, all the matches fall into one of those categories:

- Copies of py using it (in svnurl(), which the search captures as well)
- Copies of pypy (where the py library originates from historically), in it's development tools directory. However, PyPy has moved away from SVN in 2010, so they're probably just bitrotting. In any case, they use the repository the current file is in, or are hardcoded to run on a specific old PyPy team server (codespeak.net). If someone has control over that, they might as well just change those scripts. Even if there are certain scripts which actually run on arbitrary SVN servers, the context they are run in is unlikely to make a DoS a real problem. But given that they won't actually work anymore for their intended original purpose, the chance of anyone running them is pretty much zero.

On the other side of the coin, you have at least half a million projects depending on pylib via pytest, which got noise in their inbox.

I believe the main point of a CVE and security advisories is to make people aware of problems which have a real (even if small) chance of affecting them. An advisory which just adds noise to what I believe will be 100.0% of the receivers is just going to hurt the whole system and community.

In this particular case, and when viewed in context, the sheer amount of noise the advisory generates vs. its real usage is so high that the word "spam" is unfortunately very fitting. I can't help but think that "oh, I get a shiny CVE in a popular project" was the only motivation behind it.





woodruffw commented on Oct 21

Just to make sure there's no confusion: I'm not a maintainer of this project or of pytest, so my opinions are not those of the maintainers. I'm the maintainer of a separate dependency scanning project, so I have an interest in dependency feeds having a high signal-to-noise ratio. After this comment, I'll step out of this thread now (since I'm not a maintainer and I only stepped in to coordinate on the pip-audit side).

With that being said: I disagree that it's good that a CVE was filed for this behavior. The fact that one was filed and published seemingly without any review represents a series of communication and authority breakdowns; the fact that the project's own maintainers have done more investigation into exploitability potential than the original reporter seems to have is an indicator of this.

As for why that matters: not everybody is a bank, with roles dedicated to reviewing a constant deluge of security reports. In the context of more limited resources, managing security fatigue is far more important than reporting weakness classes like ReDoS, which don't manifest as exploitable vulnerabilities in the overwhelming majority of cases. When users get tired of useless reports, they disable their security tools entirely.







SCH227 commented on Oct 24

Author

First of all, I did fill for a CVE, but I didn't publish it. Someone else did it. I find illogical it was you, but the GH advisory says "Credits - @The-Compiler".

The other thing I can think of, is that GH made it automatically because this is described in a public issue. But I find it strange, because I already reported other security issues to MITRE and they never got published before I informed they were made public

37 hidden items

Load more...

KSchopmeyer pushed a commit to pywbem/pywbemtools that referenced this issue 23 days ago

Fix issues from Nov 2022 security issue changes

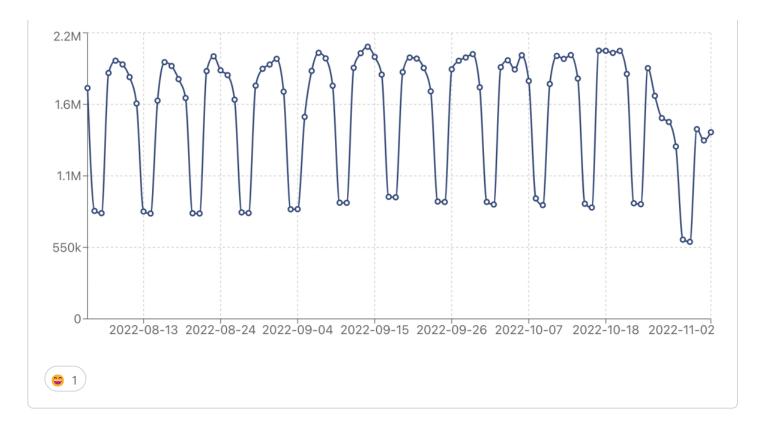
X de3b490

hugovk commented 23 days ago

Member

 As a result of this issue, today pytest 7.2.0 was released, which vendors the parts of py it needs. With that being slowly adopted, I'm assuming the number of projects depending on py will be much lower soon.

Midweek py PyPI numbers on are down from ~2M/day to ~1.4M/day:



KSchopmeyer mentioned this issue 22 days ago

Update the requirements files when correct versions of these packages released pywbem/pywbemtools#1228



KSchopmeyer pushed a commit to pywbem/pywbemtools that referenced this issue 22 days ago

Fix issues from Nov 2022 security issue changes ... X 268eb43

KSchopmeyer pushed a commit to pywbem/pywbemtools that referenced this issue 22 days ago

Fix issues from Nov 2022 security issue changes ... X 83570e8

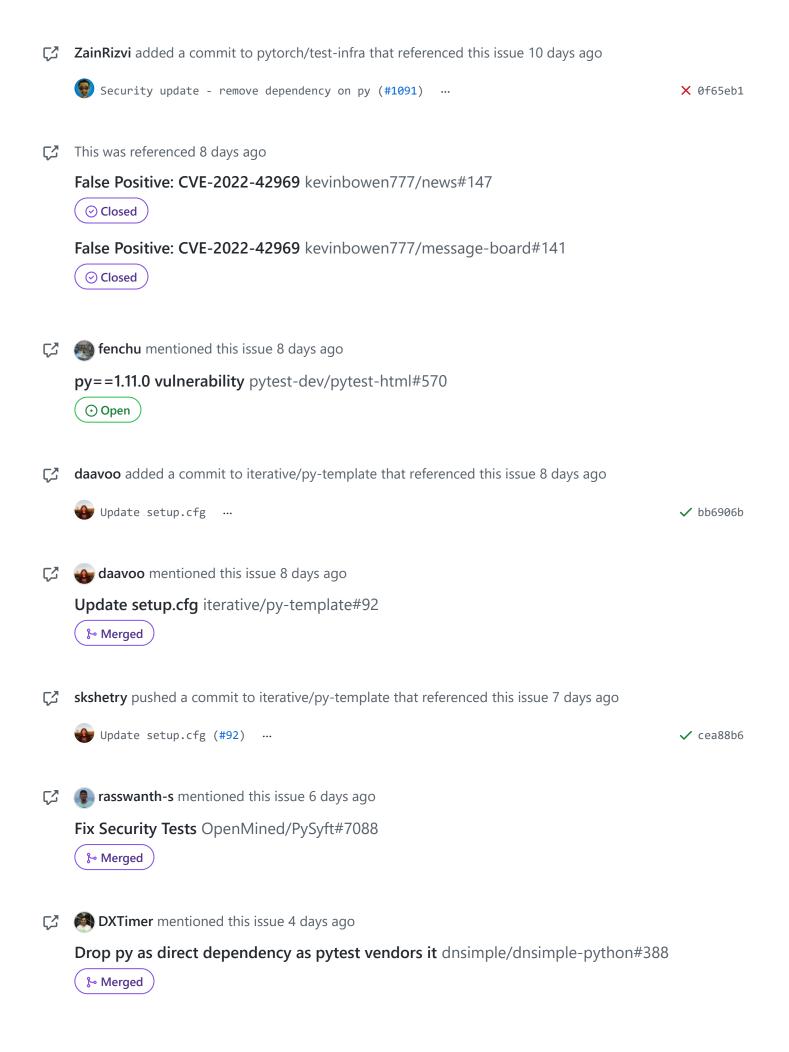
KSchopmeyer pushed a commit to pywbem/pywbemtools that referenced this issue 22 days ago

Security issues from Nov 2022 security issue changes ⋅⋅⋅ × ec6dab9

KSchopmeyer pushed a commit to pywbem/pywbemtools that referenced this issue 22 days ago

Security issues from Nov 2022 security issue changes ⋅⋅⋅ X 3aba88f

پ	hajapy mentioned this issue 21 days ago	
	[Housekeeping] Remove unused retry dependency in flytekit flyteorg/flyte#3052	
	⊙ Open	
	🔁 2 tasks	
ÇŽ	jiwaszki mentioned this issue 20 days ago	
	[PyOV] Enable Python 3.10 on Azure CI openvinotoolkit/openvino#12578	
	№ Merged	
Ç	amitgalitz mentioned this issue 18 days ago	
	CVE-2022-42969 (High) detected in py-1.11.0-py2.py3-none-any.whl opensearch-project/anomaly-detection#694	
	⊙ Closed	
C ²	sp-luciano-chinke mentioned this issue 18 days ago	
~	Add support to pytest>=7.2.0 pytest-dev/pytest-selenium#305	
	⊙ Open	
Ç	andy-maier added a commit to pywbem/pywbemtools that referenced this issue 18 days ago	
	Fix issues from Nov 2022 security issue changes (#1229)	✓ a67a800
Ç	ghickman added a commit to opensafely-core/job-server that referenced this issue 17 days ago	
	Update pytest to 7.2.0	2d16863
Ç	ManuelNavarroGarcia mentioned this issue 10 days ago	
	Bump pytest from 7.1.2 to 7.2.0 ManuelNavarroGarcia/cpsplines#35	
	Merged	
Ç	ZainRizvi mentioned this issue 10 days ago	
	Security update - remove dependency on py pytorch/test-infra#1091	



Ç	severo added a commit to huggingface/datasets-server that referenced this issue 4 days ago	
	feat: 🎸 update pytest	08b0d35
Ç	asturza2 mentioned this issue 3 days ago Drop py as direct dependency tox-dev/tox#2544 O Closed	
以	kit1980 pushed a commit to pytorch/test-infra that referenced this issue 3 days ago	
	Security update - remove dependency on py (#1091)	429c66f
Ç	yeisonvargasf added a commit to yeisonvargasf/pipenv that referenced this issue 2 days ago Get packages for Checking PEP 508 requirements	7815444
Ç	severo added a commit to huggingface/datasets-server that referenced this issue 2 days ago feat: update pytest	90752ba
Ç	■ nlhnt mentioned this issue 10 hours ago Upload wheels to PyPI andrew-d/python-multipart#37 ⊙ Open	
Assign No on	nees e assigned	
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Development

No branches or pull requests

11 participants





















