#### git\_comments:

1. now set non db backed vars on ti

#### git\_commits:

1. **summary:** [AIRFLOW-437] Send TI context in kill zombies **message:** [AIRFLOW-437] Send TI context in kill zombies Fix to provide proper TI context while calling ti.handle\_failure during kill\_zombies, as without the context handler\_failure is of no use and its equivalent of marking those TIs as failed directly. This patch had conflicts when merged, resolved by Committer: Ash Berlin-Taylor <ash\_github@firemirror.com> Closes #1796 from msumit/AIRFLOW-437-2

#### github\_issues:

# $github\_issues\_comments:\\$

#### github\_pulls:

1. title: [AIRFLOW-437] Send TI context in kill zombies

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#### github pulls comments:

- 2. @bolkedebruin @r39132 plz check again and let me know if its fine, then I can do a final rebase.
- 3. **body:** caveat a few minor nit-picks, +1

label: code-design

- 4. @msumit please update within the next 5 days else this will be closed for inactivity
- 5. @r39132 as per me this PR is complete (we are running this code in prod from past 3months).. plz let me know when to do final rebase..
- 6. @jlowin @criccomini @bolkedebruin What are your thoughts on this PR?
- 7. @msumit If this is still active, can you rebase? Or would you like to close this and reopen a fresh PR?
- 8. @r39132 yeah the change is still relevant and valid, and we are using the same in our prod from past 1.5+yrs. I can rebase if the community thinks it's useful for them, otherwise, we can close this PR.
- 9. Looks relevant.. why not send an email to the dev list to get some votes on this PR.. and proceed from there?

kill zombies call TIs failure handler with proper context -----

Traceback (most recent call last): File "/Users/ash/.virtualenvs/airflow/lib/python3.5/site-packages/mock/mock.py", line 1305, in patched return func(\*args, \*\*keywargs) File "/Users/ash/code/python/incubator-airflow/tests/models.py", line 1420, in test\_kill\_zombies ANY) File

"/Users/ash/.virtualenvs/airflow/lib/python3.5/site-packages/mock/mock.py", line 925, in assert\_called\_with raise AssertionError('Expected call: %s\nNot called' % (expected,)) AssertionError: Expected call: handle\_failure(<ANY>, True, <ANY>) Not called ```

- 12. @ashb fixed the spec. Travis is all green except one K8 spec, something which is not even touched in this PR.
- 13. I got the specs passed in my personal build though https://travis-ci.org/msumit/airflow/builds/388172642
- 14. Thanks, all merged to master now.
- 15. Thanks @ashb

### github\_pulls\_reviews:

1. **body:** Why is this hardcoded?

label: code-design

- 2. As the variable `ti` is coming out of a db query and doesn't flow through TIs `\_\_init\_\_` method, cause of that all fields which are not backed by db didn't get initialise and throws error in `ti.get template context` later.
- 3. Sure but that does answer my question. What if test\_mode needs to be true? Can that be the case?
- 4. yeah, may be.. changed it to fetch from config..
- 5. test\_mode is set per instance and not by the configuration, eg. by run. I'm not sure how "test\_mode" behaves in context of killing a zombie. Is it really required? If it is it needs to be derived differently
- 6. @bolkedebruin I believe that if `test\_mode` is true then that `ti` would never have been picked by `kill\_zombie` code, so I'd it `False` initially.
- 7. **body:** Could also be ``` python 'Marked zombie job {ti} as {ti.state}'.format(ti=ti) ``` to stick with `{}` style formatting.

label: code-design

- 8. There should be a space after `TI,` and before `'handle failure'`
- 9. **body:** @gwax read somewhere (may be in landsacpe warnings) to use `%s` instead of `format` with loggers. **label:** code-design
- 10. will do that
- 11. 👍, I missed this was in a logger call.
- 12. @bolkedebruin can we take a decision on this? As per my understanding it should be always `False` here , otherwise that `TI` won't end up in `kill\_zombie` method. @mistercrunch @r39132 @criccomini can you guys throw some more light on it.
- 13. @msumit stick with .format . Landscape is old fashioned here.
- 14. @msumit It should definitely not come the global config. Please explain why it would always be False here (you could be right, didn't trace it throughout the code).
- 15. @bolkedebruin as per my understanding, if a task ran in `test\_mode` it would not have db entries... and as `kill\_zombie` picks up `TIs` via a db query, its guaranteed that all entries it picked are not of `test\_mode`...
- 16. **body:** @bolkedebruin: even if we are using `{}` style, we would want to update logger and pass the arguments separately. The advantage to using `%` style with the current logger configuration is that it is possible to use structured logging and access the parameters separately from the string.

label: code-design

- 17. @gwax Format provides support for specifying format params both positionally and via named (i.e. keyword) params: http://stackoverflow.com/questions/17895835/format-strings-and-named-arguments-in-python
- 18. @msumit not sure I see how 'job\_id' is being used
- 19. @jlowin `job\_id` is being used only for testing purposes (see line 216 at tests/models.py).. as `kill\_zombie` do a db query against `TI` and `LJ` tables, and I need a valid value there to return some rows out of query..
- 20. Got it. Looks ok to me.
- 21. @mistercrunch what does `TaskInstance.job\_id` do? it seems to be used in a few places but I can't find any place that sets it... is it a foreign key of some kind?
- 22. It's important, the Job absctraction is actually the one looking for an external kill signal when clearing running tasks
- 23. What's this change for? It seems somewhat related to the this PR?
- 24. Won't handle failure already emit a log line saving it's marking the task as up for retry/failed?
- 25. Rather: you add a param to the constructor but don't seem to use it (and the pattern the rest of the code uses is just to set `ti.job\_id = job\_id`
- 26. Okay, I saw the previous comments on this. Rather than adding a new form to the constructor we should just set the property on the instance in the tests (around line 1363)
- 27. @ashb yes it does, but in `handle\_failure` we call `task.on\_failure\_callback(context)` which might change the state of the `ti` (which happens in our case). Hence a final msg about status of zombie job would be helpful.
- 28. What do the log lines look like with this in place please?
- 29. @ashb here you go. ``` {models.py:367} INFO Finding 'running' jobs without a recent heartbeat {models.py:371} INFO Failing jobs without heartbeat after 2018-06-03 11:48:43.206777+00:00 {models.py:1694} ERROR -

<TaskInstance: example\_python\_operator.sleep\_for\_0 2018-06-03 10:41:18+00:00 [running]> detected as zombie {models.py:1722} INFO - Marking task as FAILED. {models.py:398} INFO - Marked zombie job <TaskInstance: example\_python\_operator.sleep\_for\_0 2018-06-03 10:41:18+00:00 [failed]> as failed ``` In one of our case we use `handle\_failure` to change the state of TI to success (4th log line), which eventually changes the line 5 accordingly.

- 30. @ashb thanks for the suggestion. Changed the spec code, so no changes required in here.
- 31. This looks incorrect log.exception basically does this already (but includes useful traceback). Is there some reason we need this change?
- 32. **body:** Oh were we actually logging the error twice? I think this line should stay (unmodified) and the log at the end just removed.

label: code-design

- 33. sorry, I somehow thought that `error` is just a string (prolly it was when I first wrote it), and as we are passing a string error message, was seeing `NoneType: None` at the end of the log. Will revert it back. And yes, we were printing the same message twice so removed the last one.
- 34. Oh I now see what is going on with the `log.error` vs `log.exception` the other place handle\_failure is used is for a task actually failing, after an exception has been raised. `log.exception` is the same as `log.error(..., exc\_info=True)` which just automatically includes exception info. If this produces sensible logging output now I think this PR looks good now.
- 35. yeah, the log is giving correct msg, that we `got a zombie` instead of announcing it dead already. As at this point no one is sure what task's handle\_failure would be doing, so finally we are stating that after we are pass through it. Here is one such [example](https://github.com/apache/incubator-airflow/blob/master/airflow/contrib/hooks/qubole\_hook.py#L98).

## jira\_issues:

- 1. **summary:** Provide task context while calling ti.handle\_failure during kill\_zombies **description:** Without proper context {{ti.handler\_failure}} is of no use and its as good as marking those TIs failed directly.
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#### jira\_issues\_comments:

- 1. Commit df05546f8d4676ff3651e6a4c093ad068c7f5bbc in incubator-airflow's branch refs/heads/master from [~msumit] [ https://git-wip-us.apache.org/repos/asf?p=incubator-airflow.git;h=df05546 ] [AIRFLOW-437] Send TI context in kill zombies Fix to provide proper TI context while calling ti.handle\_failure during kill\_zombies, as without the context handler\_failure is of no use and its equivalent of marking those TIs as failed directly. This patch had conflicts when merged, resolved by Committer: Ash Berlin-Taylor <ash\_github@firemirror.com> Closes #1796 from msumit/AIRFLOW-437-2
- 2. Commit df05546f8d4676ff3651e6a4c093ad068c7f5bbc in incubator-airflow's branch refs/heads/master from [~msumit] [ https://git-wip-us.apache.org/repos/asf?p=incubator-airflow.git;h=df05546 ] [AIRFLOW-437] Send TI context in kill zombies Fix to provide proper TI context while calling ti.handle\_failure during kill\_zombies, as without the context handler\_failure is of no use and its equivalent of marking those TIs as failed directly. This patch had conflicts when merged, resolved by Committer: Ash Berlin-Taylor <ash\_github@firemirror.com> Closes #1796 from msumit/AIRFLOW-437-2
- 3. Issue resolved by pull request #1796 [https://github.com/apache/incubator-airflow/pull/1796]
- 4. User 'msumit' has created a pull request for this issue: https://github.com/apache/incubator-airflow/pull/1796