How can I change the name of a task that Celery sends to a backend?

2

I have built a queue system using Celery that accepts web requests and executes some tasks to act on those requests. I'm using Redis as the backend for Celery, but I imagine this question would apply to all backends.

Celery is returning the task name as `celery-task-meta-<task ID>` and storing it in the backend. This is meaningless to me. How can I change the name of the result that celery sends to Redis? I have searched through all of [Celery's documentation](#) to try to figure out how to do this.
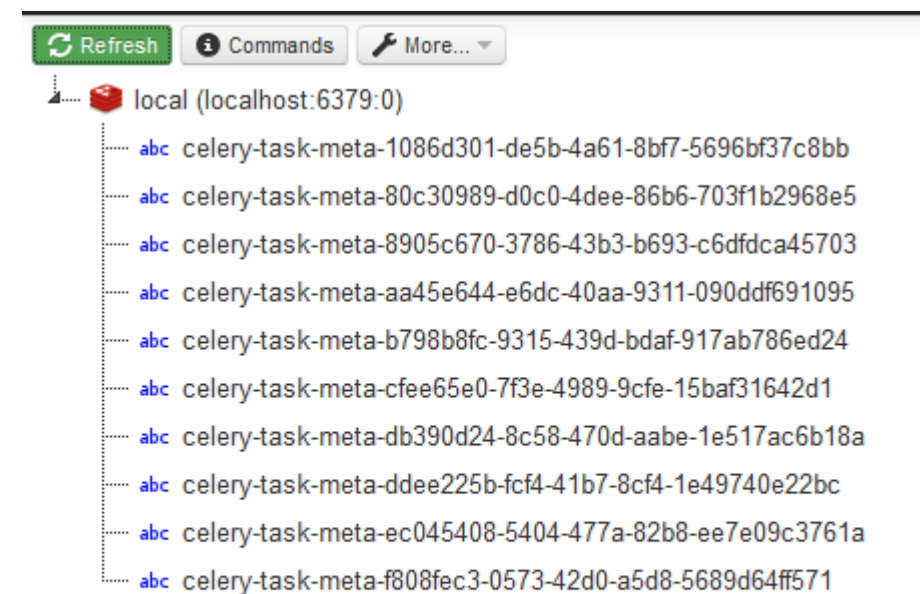
The Redis CLI monitor is showing that Celery is using the SETEX method and sending the following input:

> "SETEX" "celery-task-meta-dd32ded3-00aa-4884-8b21-42f8332e7fac" "86400" "{\"status\": \"SUCCESS\", \"result\": {\"mode\": \"staging\", \"123\": 50}, \"traceback\": null, \"children\": [], \"task_id\": \"dd32ded3-00aa-4884-8b21-42f8332e7fac\", \"date_done\": \"2019-05-09T16:44:12.826951\", \"parent_id\": \"2e99d958-cd5a-4700-a7c2-22c90f387f28\"}"

The `"result": {...}` that you can see in the SETEX command above is what the task returns. I would like the SETEX to be more along the lines of:
`"SETEX" "mode-staging-123-50-SUCCESS" "{...}"`, so that when I view all my keys in Redis, the name of the key is informational to me.

Here's another example view of the keys in my Redis cache that are meaningless:

`python-3.x`   `redis`   `celery`

Share Improve this question Follow

1 Answer

Sorted by: Highest score (default) ⇕

▲

3

▼

🔖

🕓

You can't change this. The task key is created by `ResultConsumer` class which Redis backend uses. `ResultConsumer` then delegates creation of the task key to `BaseKeyValueStoreBackend` class. The `get_key_for_task` method which actually creates the key uses hardcoded `task_keyprefix` set to `celery-task-meta-`. So, to change the behaviour, you would have to subclass these classes. There's not configuration option for it.

Thanks for the reply. For the sake of accuracy, are you saying it's impossible to change it? Couldn't one simply patch Celery to dynamically create a new task name inside of the `BaseKeyValueStoreBackend` class? That's obviously a lot more work than it's worth, so I think I will go with something else. – David00 May 13, 2019 at 17:02

That's what I tried to say. It's not completelly impossible, just a lot of work. Also, you would have to maintain your modifications. – Tomáš Linhart May 14, 2019 at 4:39

How to set task ID of first task in a celery chain?

Asked 9 years, 3 months ago   Modified 3 years ago   Viewed 3k times

I have something like this

2

```
from uuid import uuid4
task_id = uuid4()
(task1.s(args..) | task2.s() | task3.s()).apply_async(task_id=task_id)
```

Now I want this custom task_id to be the task ID for the first task `task1` but it is different when I tried to log it from `task1` using `self.request.id`.

How can I set a custom ID here?

python   celery

Share   Improve this question   Follow

2 Answers

Sorted by: Highest score (default) ⬍

If you want to pass task_id to first task in your chain you should call `.subtask()` which expose more options than `.s()` or `.si()` :

7

```
from celery.utils import uuid
first_task_id = uuid()

(task1.subtask(args=(..), task_id=first_task_id) | task2.s() |
task3.s()).apply_async()
```

✓

Share   Improve this answer   Follow

Just:

3

```
from uuid import uuid4
task_id = uuid4()
(task1.s(args..).set(task_id=task_id) | task2.s() | task3.s()).apply_async()
```

Share   Improve this answer   Follow