

Celery - Interview Sheet

Distributed task queues, brokers, scheduling, and monitoring

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Top 10 Interview Questions

Q1. What is Celery and what problem does it solve? Explain the role of a message broker in its architecture.

Answer:

Q2. What are the main components of Celery: broker, worker, beat scheduler, and result backend?

Answer:

Q3. How do you define a Celery task using the `@app.task` decorator and configure its queue and routing?

Answer:

Q4. What is the difference between `task.delay()` and `task.apply_async()`? When do you use `apply_async` kwargs?

Answer:

Q5. How does Celery handle task retries? How do you configure `max_retries`, `countdown`, and `autoretry_for`?

Answer:

Q6. What is Celery Beat and how do you define periodic tasks using a schedule in the Celery config?

Answer:

Q7. Explain Celery workflow primitives: chain, group, and chord. Give a use case for chord.

Answer:

Q8. How do you monitor Celery workers using Flower? What metrics does Flower expose?

Answer:

Q9. How do you route tasks to specific queues and why would you want multiple queues in a system?

Answer:

Q10. How do you test Celery tasks in unit tests without a running broker using `CELERY_TASK_ALWAYS_EAGER` or `task_always_eager`?

Answer: