

DATA TRANSFER SERVICE

Hanlun Wang, Yifan Pan, Siyi Ling

S

SITUATION

The DTS service prototype needs to replicate create, update, and delete transactions happened in MySQL database to MongoDB database.

T

TASK

1/ Need to implement a listener for binary logs in MySQL
2/ Need to implement a message broker in between producer and consumer
3/ Need to implement a parser and writer

A

ACTION

1/ Used Lambda function to periodically query binlogs
2/ Used SQS and its dead-letter exchange for failsafe
3/ Deployed parser and DAO on tomcat

R

RESULT

1/ Throughput: around 161 responses/second for 3 threads in consumer
2/ Eventual consistency at 100ms (not guaranteeing transaction ordering)