SQS Console

Amazon SQS > Queues > cs5260-requests

cs5260-requests

Edit Delete Purge Send and receive messages Start DLQ redrive

Details Info

Name
cs5260-requests

Type
Standard

ARN
arn:aws:sqs:us-east-1:982170434560:cs5260-requests

Encryption
Disabled

URL
https://sqs.us-east-1.amazonaws.com/982170434560/cs5260-requests

Dead-letter queue
-

▶ More

SNS subscriptions | Lambda triggers | Dead-letter queue | Monitoring | Tagging | Access policy | Encryption | Dead-letter queue redrive tasks

Subscription region
us-east-1 ▾

SNS subscriptions (0) Info   View in SNS ⧉ Delete Subscribe to Amazon SNS topic

Search subscriptions   ‹ 1 › ⚙
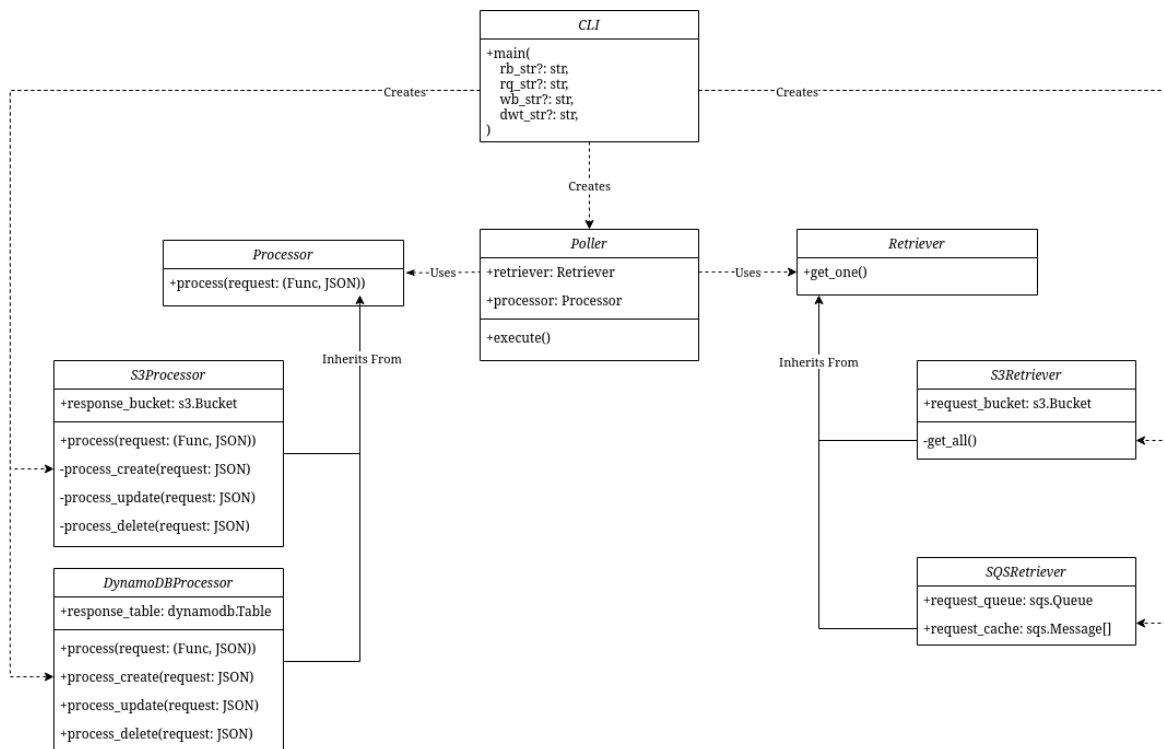
Subscription ARN ▾	Topic ARN ▽

No Amazon SNS subscriptions
To allow your queue to receive messages, subscribe it to an Amazon SNS topic.

Subscribe to Amazon SNS topic

Design Document

```
              ┌──────────────────────┐
              │         CLI          │
              ├──────────────────────┤
              │ +main(               │
              │   rb_str?: str,      │
              │   rq_str?: str,      │
              │   wb_str?: str,      │
              │   dwt_str?: str,     │
              │ )                    │
              └──────────────────────┘
```

Creates — Creates — Creates

Processor
+process(request: (Func, JSON))

Poller
+retriever: Retriever
+processor: Processor
+execute()

Retriever
+get_one()

Uses ◄ - - - - ► Uses - - - - ►

Inherits From

S3Processor
+response_bucket: s3.Bucket
+process(request: (Func, JSON))
-process_create(request: JSON)
-process_update(request: JSON)
-process_delete(request: JSON)

DynamoDBProcessor
+response_table: dynamodb.Table
+process(request: (Func, JSON))
+process_create(request: JSON)
+process_update(request: JSON)
+process_delete(request: JSON)

S3Retriever
+request_bucket: s3.Bucket
-get_all()

SQSRetriever
+request_queue: sqs.Queue
+request_cache: sqs.Message[]

Inherits From

Multiple Consumers

```
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for d440b26f-5f4a-4a25-8a2f-c2a3118131c8
INFO:root:Polling for requests
INFO:root:Processing an UPDATE request into DynamoDB for a857ca19-7974-4284-9a57-6e0e918dafbd
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for b0646c39-72c8-4357-97a7-9e30e0761702
INFO:root:Polling for requests
INFO:root:Processing an UPDATE request into DynamoDB for a857ca19-7974-4284-9a57-6e0e918dafbd
INFO:root:Polling for requests
WARNING:root:Could not find request 1667944189627 to retrieve
INFO:root:No requests found, waiting
INFO:root:Polling for requests
WARNING:root:Could not find request 1667944189873 to retrieve
INFO:root:No requests found, waiting
INFO:root:Polling for requests
WARNING:root:Could not find request 1667944190013 to retrieve
INFO:root:No requests found, waiting
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for 985f6f6c-0d0d-4661-a9a8-8ee9dc69ca5d
INFO:root:Polling for requests
INFO:root:Processing an UPDATE request into DynamoDB for ed945142-f74c-44a5-8a31-88346d0e6bc8
INFO:root:Polling for requests
INFO:root:Processing a DELETE request into DynamoDB for 139442d1-b619-4076-b238-2ef64a969145
INFO:root:Polling for requests
```

```
INFO:root:Processing a CREATE request into DynamoDB for 139442d1-b619-4076-b238-2ef64a969145
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for 32629889-fe16-49f6-b230-ed5518fe7e4d
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for 487d4917-37ef-44ac-bf41-568b810359b9
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for a857ca19-7974-4284-9a57-6e0e918dafbd
INFO:root:Polling for requests
WARNING:root:Could not find request 1667944188824 to retrieve
INFO:root:No requests found, waiting
INFO:root:Polling for requests
WARNING:root:Could not find request 1667944188981 to retrieve
INFO:root:No requests found, waiting
INFO:root:Polling for requests
INFO:root:Processing an UPDATE request into DynamoDB for a857ca19-7974-4284-9a57-6e0e918dafbd
INFO:root:Polling for requests
INFO:root:Processing an UPDATE request into DynamoDB for b0646c39-72c8-4357-97a7-9e30e0761702
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for 9f5c086c-c761-404a-aa9f-92878ddd5b7e
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for ed945142-f74c-44a5-8a31-88346d0e6bc8
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for 985f6f6c-0d0d-4661-a9a8-8ee9dc69ca5d
INFO:root:Polling for requests
INFO:root:Processing an UPDATE request into DynamoDB for ed945142-f74c-44a5-8a31-88346d0e6bc8
INFO:root:Polling for requests
INFO:root:Processing a DELETE request into DynamoDB for 139442d1-b619-4076-b238-2ef64a969145
INFO:root:Polling for requests
```

```
14:50:48.086 [Thread-0] INFO  edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
14:50:48.221 [Thread-0] INFO  edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
14:50:48.474 [Thread-0] INFO  edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
14:50:48.608 [Thread-0] INFO  edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
14:50:48.763 [Thread-0] INFO  edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
14:50:48.906 [Thread-0] INFO  edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
14:50:49.043 [Thread-0] INFO  edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
14:50:49.183 [Thread-0] INFO  edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
```

Consumer in a Docker Container

```
school/cloudDevelopment/homework2 on  master +2 -1 [!?] via  v3.10.8 (.venv) took 2s
→ sudo docker run --env-file docker.env consumer
INFO:botocore.credentials:Found credentials in environment variables.
INFO:root:Connected to AWS
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for f122e3c5-0d5b-4435-bc3c-3d6b26f333f1
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for 2e1427d7-94cf-47bd-939d-6ef95b284539
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for d340cf57-ba4f-47f9-b9c8-039f9c3321f7
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for 93616594-5375-4d69-a2e1-16bfce660ab2
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for c381e8ca-03ac-4343-8d3a-e9a8a1ad7b1a
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for 092bc93d-7ec3-49cd-90eb-2c8bc2a7d822
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for d122f4b2-06fa-4207-8fca-01ef98f4d7ed
INFO:root:Polling for requests
INFO:root:Processing an UPDATE request into DynamoDB for d122f4b2-06fa-4207-8fca-01ef98f4d7ed
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for 3b4b117c-ef85-4a95-91f9-c9827d7cb001
INFO:root:Polling for requests
INFO:root:Processing a CREATE request into DynamoDB for edea01d2-f319-4f6a-8b68-2627690d4a4a
INFO:root:Polling for requests
INFO:root:Processing a DELETE request into DynamoDB for 3b4b117c-ef85-4a95-91f9-c9827d7cb001
INFO:root:Polling for requests
```

ECR Console

Amazon ECR > Repositories > cs-5260

cs-5260

View push commands   Edit

Images (1)

	Image tag ▽	Artifact type	Pushed at ▼	Size (MB) ▽	Image URI	Digest	Scan status	Vulnerabilities
☐	latest	Image	November 08, 2022, 16:53:31 (UTC-07)	465.94	⧉ Copy URI	⧉ sha256:2efc8c0ba3b0932...	In progress	-

Git History

```
a91933d - Jaren Glenn @ 2 hours ago : fixed catching NoSuchKey
776c06d - Jaren Glenn @ 2 hours ago : updated tests
eea161b - Jaren Glenn @ 3 hours ago : implemented widget update and delete
350e0db - Jaren Glenn @ 4 hours ago : updated tests and logging for sqs
6d0e082 - Jaren Glenn @ 5 hours ago : added support for sqs in cli
59a2430 - Jaren Glenn @ 6 hours ago : added SQS retriever
e2979ad - Jaren Glenn @ 6 hours ago : combined cli
```

Questions
1. When using standard queues there's no guarantee of first-in-first-out so Delete and Update requests may be processed before their corresponding widget is created.

2. Applications that use queues need to be aware of this and handle the situation appropriately - perhaps just throwing away the message, or re-adding it to the queue so it can be processed at a later time i.e. after the corresponding message is created.