Package 'AWR.Kinesis'

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Type Package	
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Citle Amazon 'Kinesis' Consumer Application for Stream Processing	
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AWR.Kinesis-package AnR

An R Kinesis Consumer

Description

Please find more details in the README. md file.

checkpoint

Checkpoint at current or given sequence number

Description

Checkpoint at current or given sequence number

Usage

```
checkpoint(sequenceNumber)
```

Arguments

sequenceNumber optional

kinesis_consumer

Run Kinesis Consumer application

Description

Run Kinesis Consumer application

Usage

```
kinesis_consumer(
  initialize,
  processRecords,
  shutdown,
  checkpointing = TRUE,
  updater,
  logfile = tempfile()
)
```

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Arguments

initialize optional function to be run on startup. Please note that the variables created

inside of this function will not be available to eg processRecords, so make

sure to store the shared variables in the parent or global namespace

processRecords function to process records taking a data.frame object with partitionKey,

sequenceNumber and data columns as the records argument. Probably you

only need the data column from this object

shutdown optional function to be run when finished processing all records in a shard

 $checkpointing \quad if set to \ TRUE \ (default), kinesis_consumer \ will \ checkpoint \ after \ each \ process Records$

call. To disable checkpointing altogether, set this to FALSE. If you want to check-

point periodically, set this to the frequency in minutes as integer.

updater optional list of list(s) including frequency (in minutes) and function to be run,

most likely to update some objects in the parent or global namespace populated first in the initialize call. If the frequency is smaller than how long the processRecords call runs, it will be triggered once after each processRecords

call

logfile file path of the log file. To disable logging, set log_threshold to something

high with the AWR.Kinesis namespace

Note

Don't run this function directly, it is to be called by the MultiLangDaemon. See the package README for more details.

References

https://github.com/awslabs/amazon-kinesis-client/blob/v1.x/src/main/java/com/amazonaws/services/kinesis/multilang/package-info.java

Examples

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Description

Get record from a Kinesis Stream

Usage

```
kinesis_get_records(
   stream,
   region = "us-west-1",
   limit = 25,
   shard_id,
   iterator_type = c("TRIM_HORIZON", "LATEST", "AT_SEQUENCE_NUMBER",
        "AFTER_SEQUENCE_NUMBER", "AT_TIMESTAMP"),
   start_sequence_number,
   start_timestamp
)
```

Arguments

```
stream stream name (string)

region AWS region (string)

limit number of records to fetch

shard_id optional shard id - will pick a random active shard if left empty

iterator_type shard iterator type

start_sequence_number
for AT_SEQUENCE_NUMBER and AFTER_SEQUENCE_NUMBER iterators

start_timestamp
for AT_TIMESTAMP iterator
```

Value

character vector that you might want to post-process eg with jsonlite::stream_in

Note

Use this no more than getting sample data from a stream - it's not intended for prod usage.

References

https://docs.aws.amazon.com/AWSJavaSDK/latest/javadoc/com/amazonaws/services/kinesis/model/GetRecordsRequest.html

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Description

Write a record to a Kinesis Stream

Usage

```
kinesis_put_record(stream, region = "us-west-1", data, partitionKey)
```

Arguments

stream stream name (string)
region AWS region (string)
data data blog (string)

partitionKey determines which shard in the stream the data record is assigned to, eg username,

stock symbol etc (string)

Value

invisible list including the shard id and sequence number

References

```
https://docs.aws.amazon.com/AWSJavaSDK/latest/javadoc/com/amazonaws/services/kinesis/model/PutRecordRequest.html\\
```

Examples

```
## Not run:
df <- mtcars[1, ]
str(kinesis_put_record('test-AWR', data = jsonlite::toJSON(df), partitionKey = row.names(df)))
## End(Not run)</pre>
```

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