

Studied

acks(=1)

<u>retries(default=3, recomended=INT.MAX_VALUE, initial=100)</u>

linger.ms=5

Batch.size: Default=16384

enable.idempotence=True

Delivery.timeout.ms. Default=2 min

Producer Conf. Proposal

acks = 1
retries = 100

linger.ms=5

Recomended = 30000 (30 seq)

delivery.timeout.ms=30000

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auto.leader.rebalance.enable.Default=True

background.threads(default=10)

compression.type

message.max.bytes

num.io.threads(default=8)

log.cleaner.threads(default=1)

As Turbine we don't have access to modify the broker properties.

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enable.auto.commit(default=True)

Reconnect.backoff.ms. Default=50

Rebalance.timeout.ms. Default=1min

session.timeout.ms(default=10s)

processing.guarantee(default: at_least_once, possible: exactly once)

receive.buffer.bytes(8->16 MB, or -1)

Consumer Conf. Proposal

rebalance.timeout.ms=30000-DEPRECATED receive.buffer.bytes=-1 = Deprecated

retry.backoff.ms = 100

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KAFKA

TOPIC

Cleanup.policy ("delete" or "compact")

retention.ms(default=7 days= 604800000)

max.message.bytes=64000

Flush.messages=0

segment.ms(default=7 dyas = 604800000)

Topic Conf. Proposal

flush.messages=0

segment.ms = 5184000000 (60 days)
retention.ms = 5184000000
cleanup.policy=delete

The cluster-level configuration property log.retention.check.interval.ms (default is 5 minutes) controls how often the broker checks to see whether log segments should be deleted. The cluster-level configuration property

log.segment.delete.delay.ms (default is 1 minute) controls how long the broker waits before deleting the log segments. This means that by default you also need to ensure you have enough disk space to store log segments for an additional 6 minutes for each partition.

Replication Factor

Default = 3

replication factors refer to backups.

For most implementations you want to follow the rule of thumb of 10 partitions per topic, and 10,000 partitions per Kafka cluster. Going beyond that amount can require additional monitoring and optimization.

Partitions = Desired Throughput / Partition Speed(10MB/s)

Proposal

- 10 partitions per topic
- Replication Factor default = 3
- # Consumer <= # partitions per topic
- Recommended 3 Kafka brokers

- topic partition count
- cleanup.policy
- retention.ms