

# TGIP-CN 017

New features in 2.6.0

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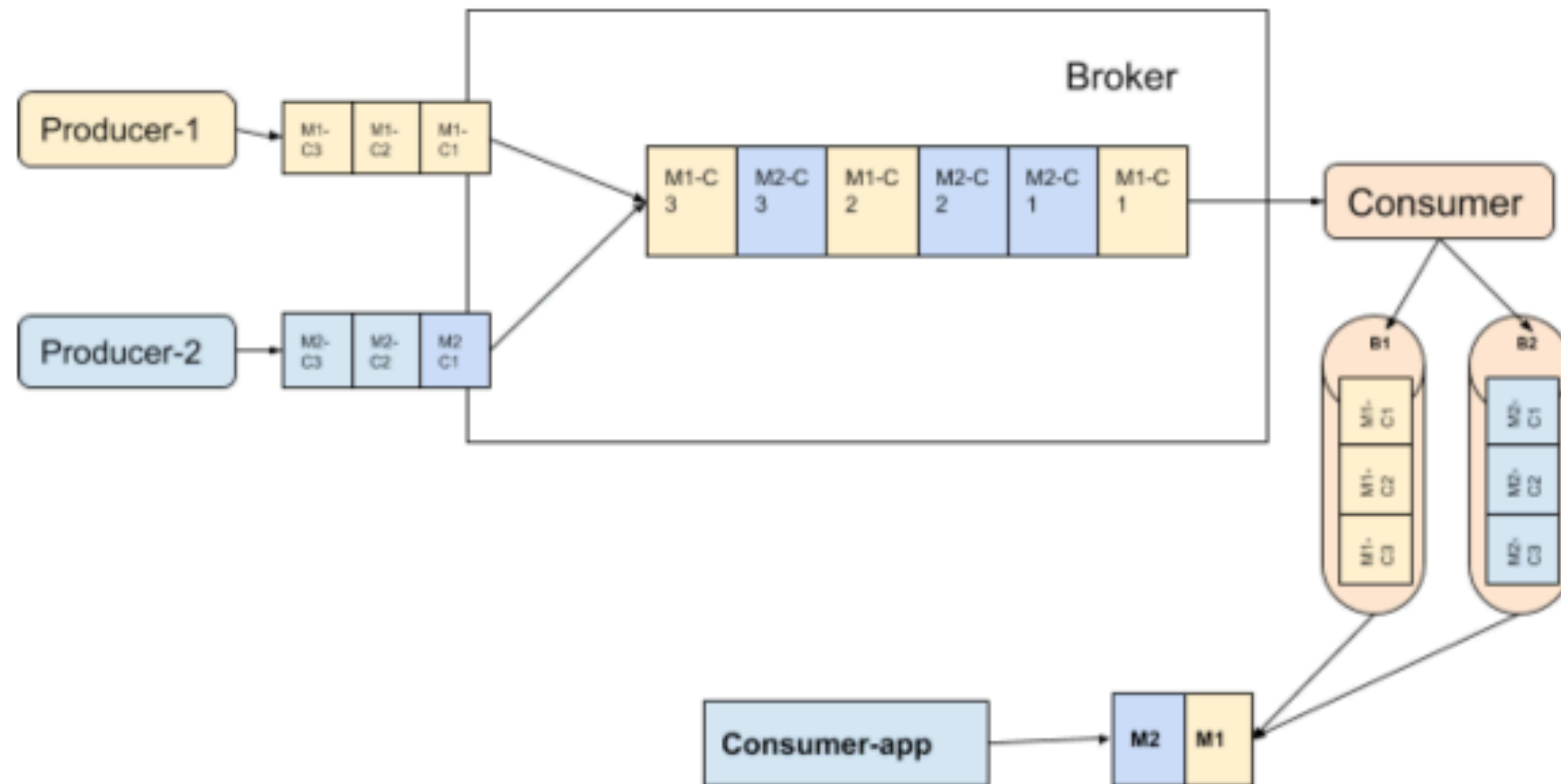
## 1. PIP-68 Exclusive producer

### 2. 2.6.1 Release

```
Producer<T> producer = client.newProducer(Schema.JSON(T.class))  
    .topic("my-topic")  
    .accessMode(ProducerAccessMode.WaitForExclusive)  
    .create();
```



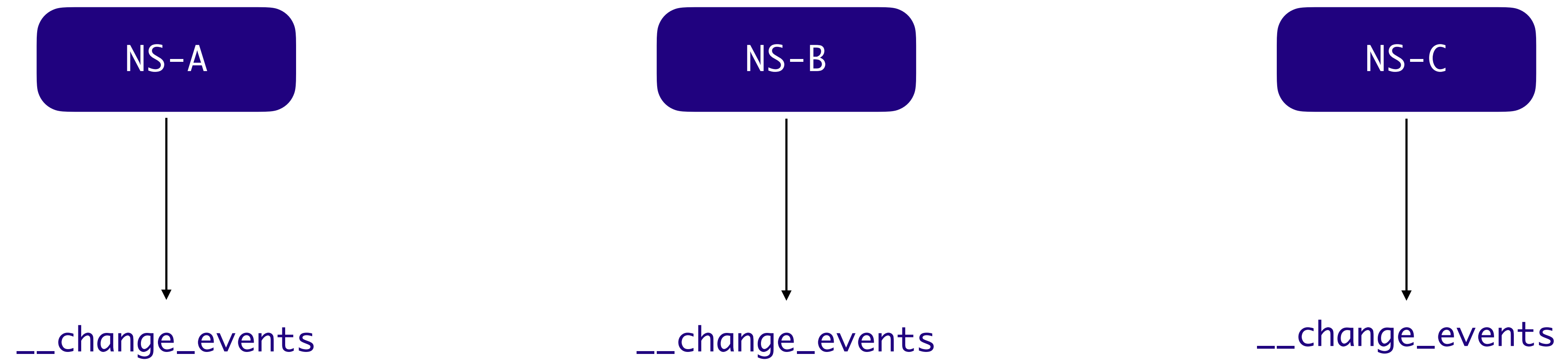
# [PIP-37] Large message size support



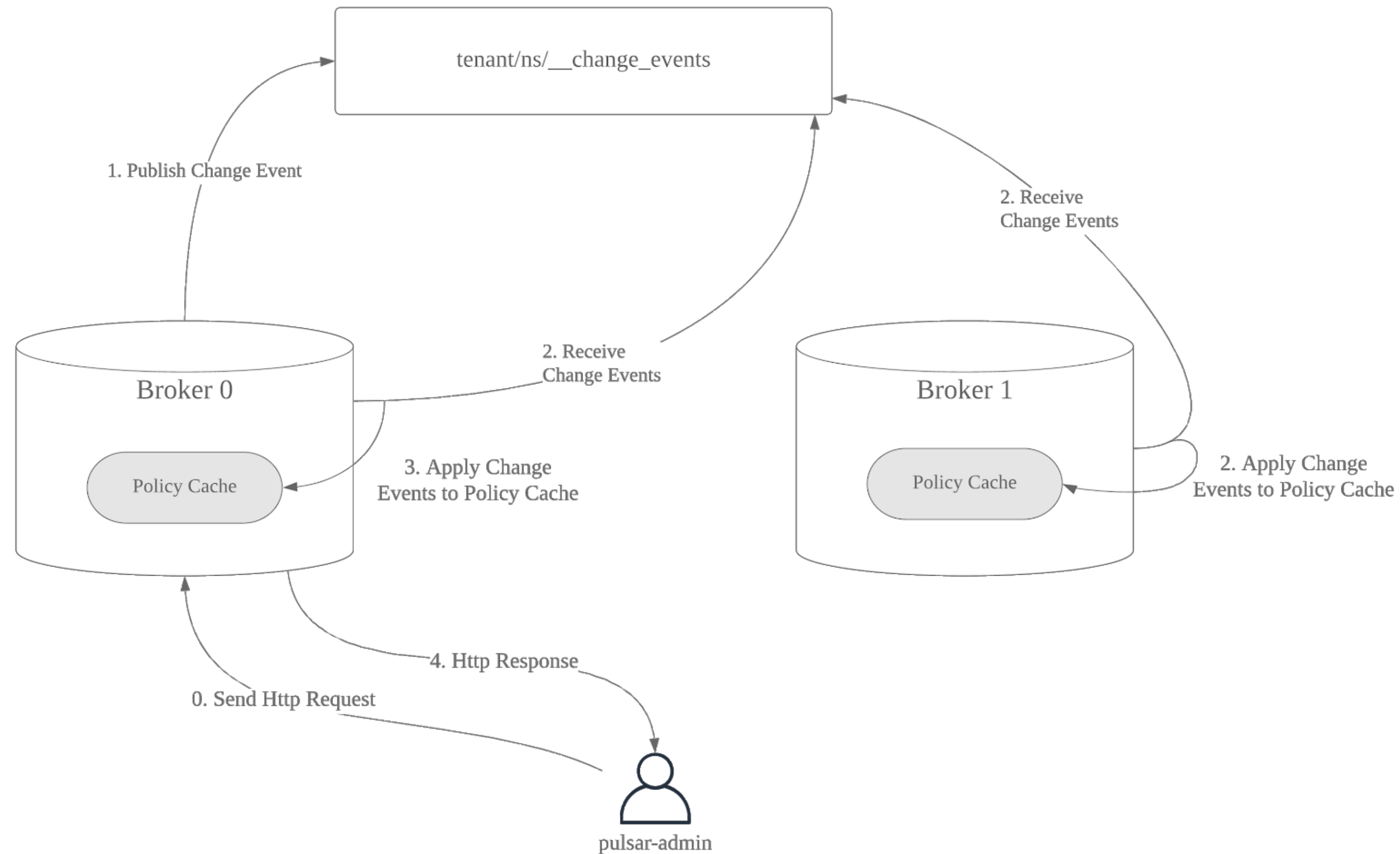
```
client.newProducer()  
  .topic("my-topic")  
  .enableChunking(true)  
  .create();
```



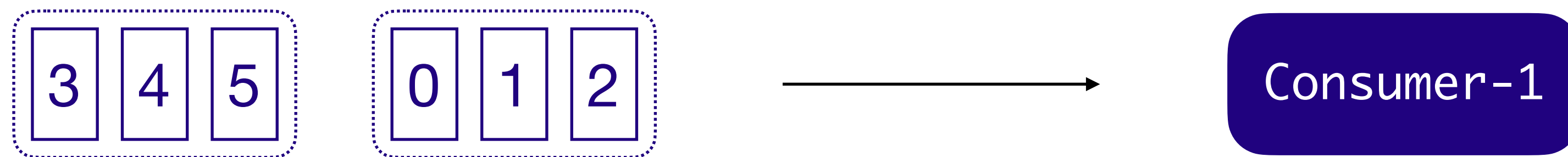
# [PIP-38] Namespace change events



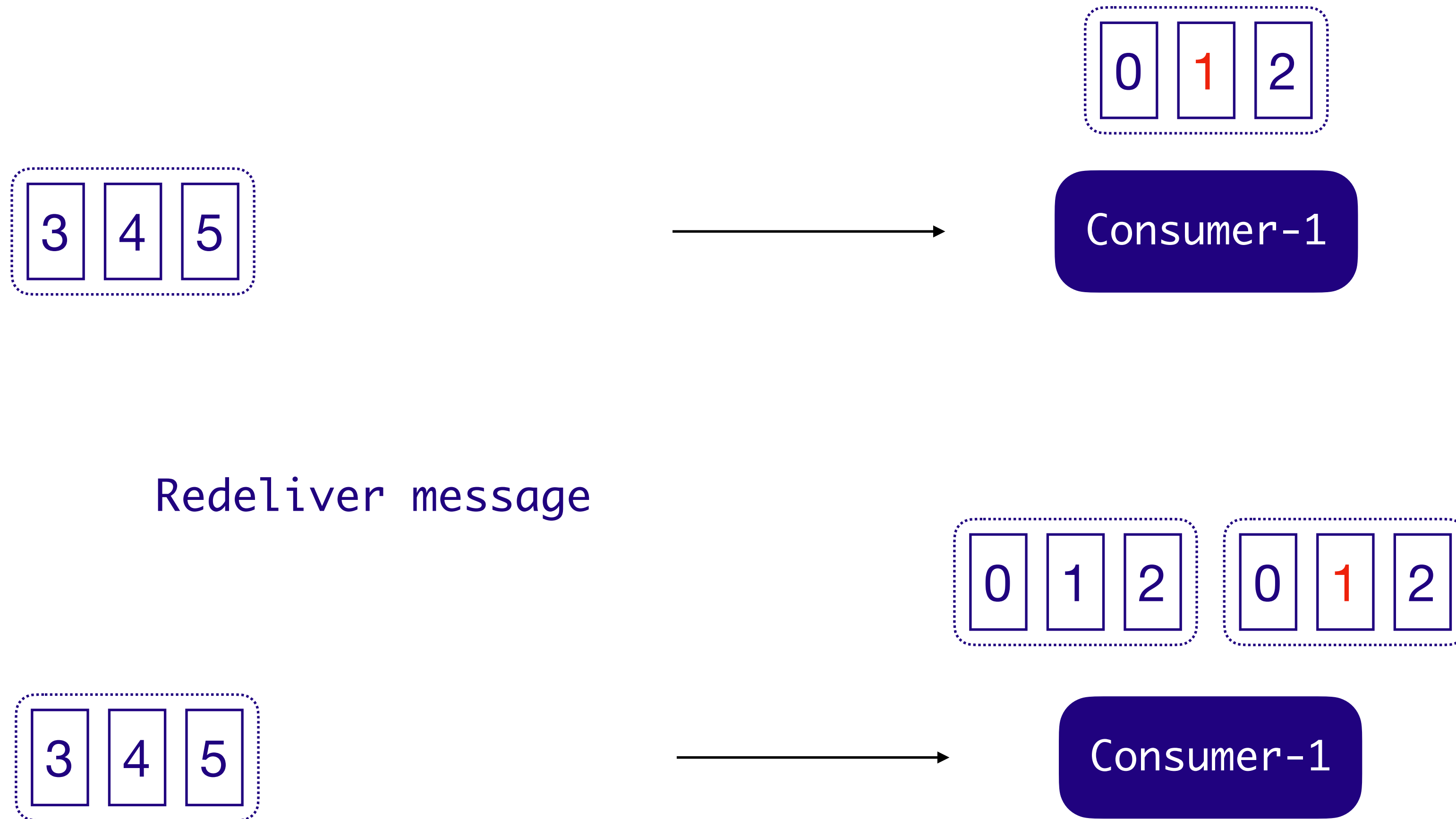
# [PIP-38] Namespace change events



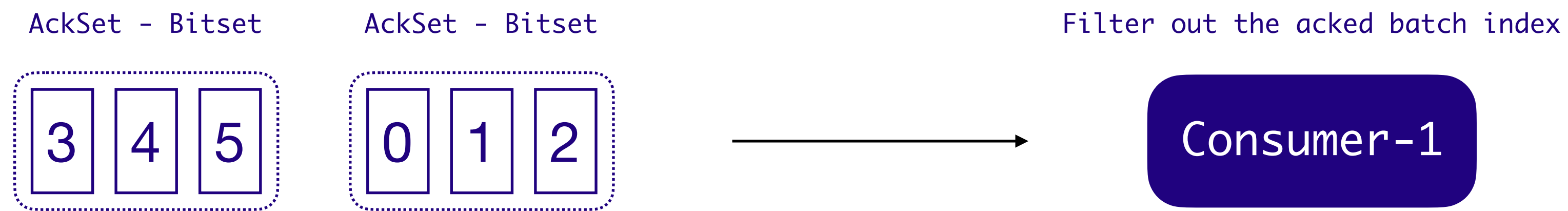
# [PIP-54] Acknowledgement at batch index



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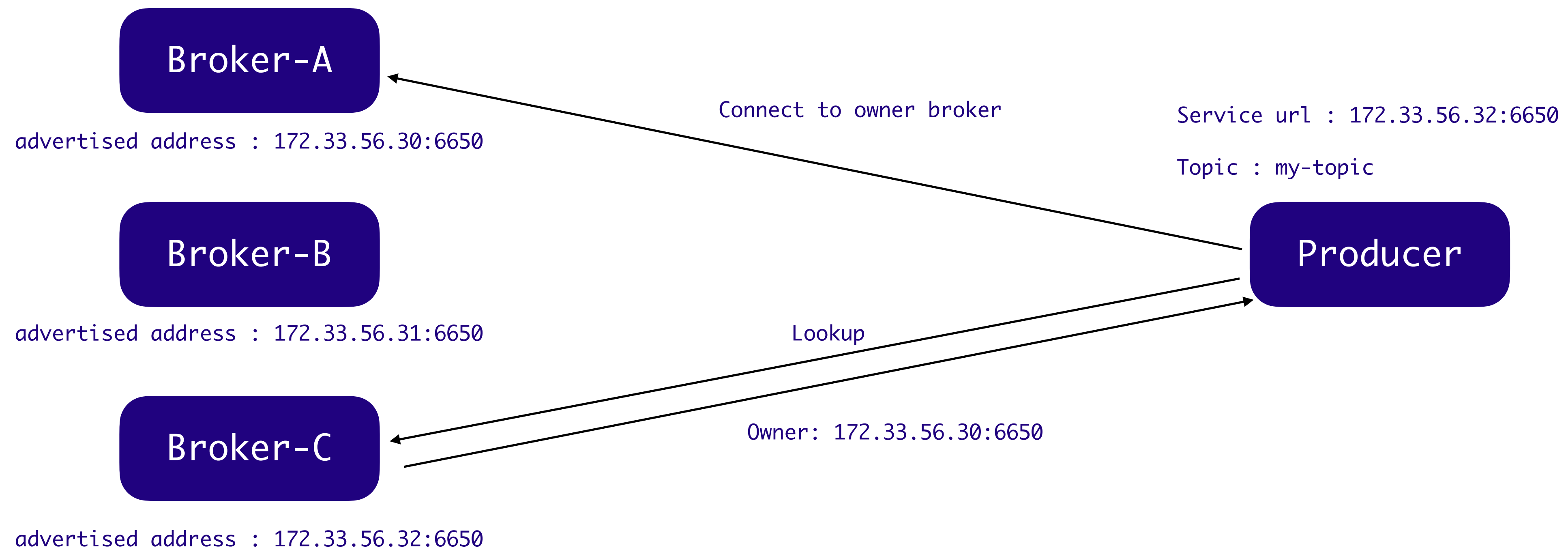
# [PIP-58] Support setting custom retry delay

```
Consumer<byte[]> consumer = pulsarClient.newConsumer(Schema.BYTES)
    .enableRetry(true)
    .receiverQueueSize(100)
    .deadLetterPolicy(DeadLetterPolicy.builder()
        .maxRedeliverCount(maxRedeliveryCount)
        .retryLetterTopic("persistent://my-property/my-ns/my-subscription-custom-Retry")
        .build())
    .subscribe();

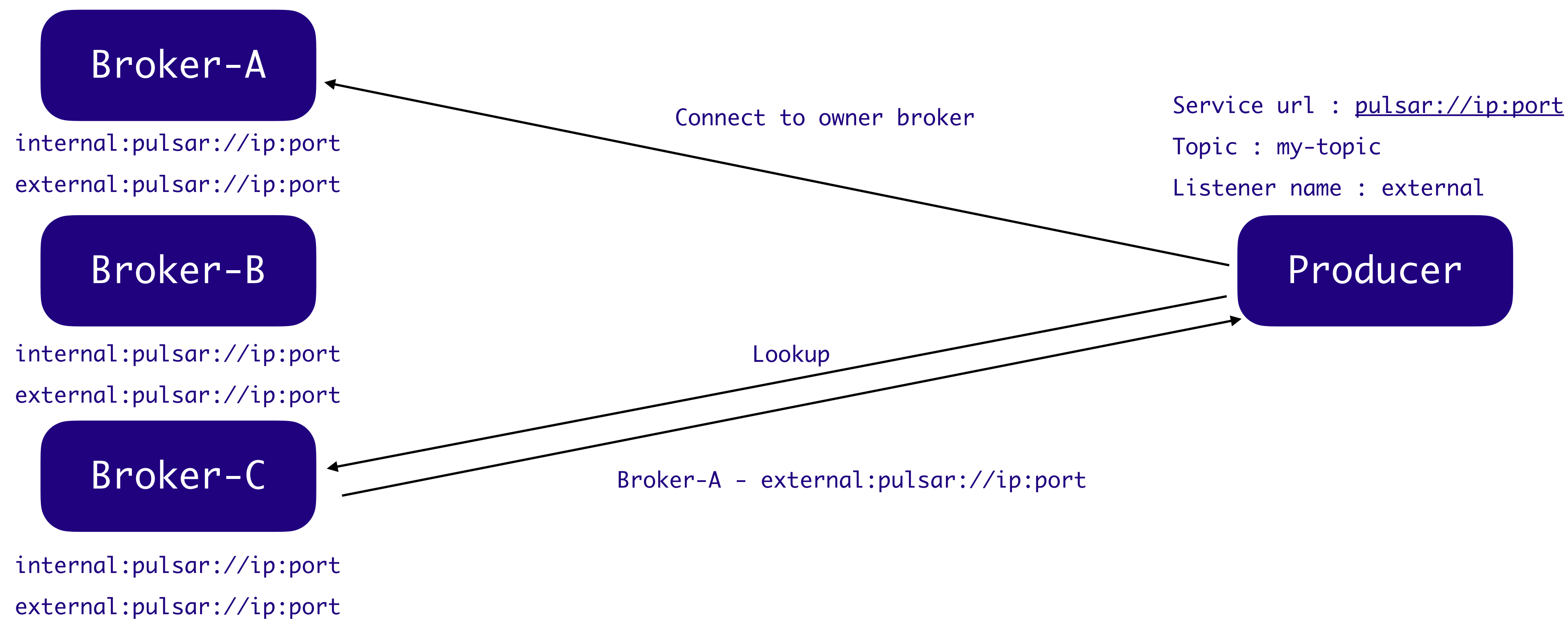
consumer.reconsumeLater(message, 10 , TimeUnit.SECONDS);
```



# [PIP-61] Advertise multiple addresses



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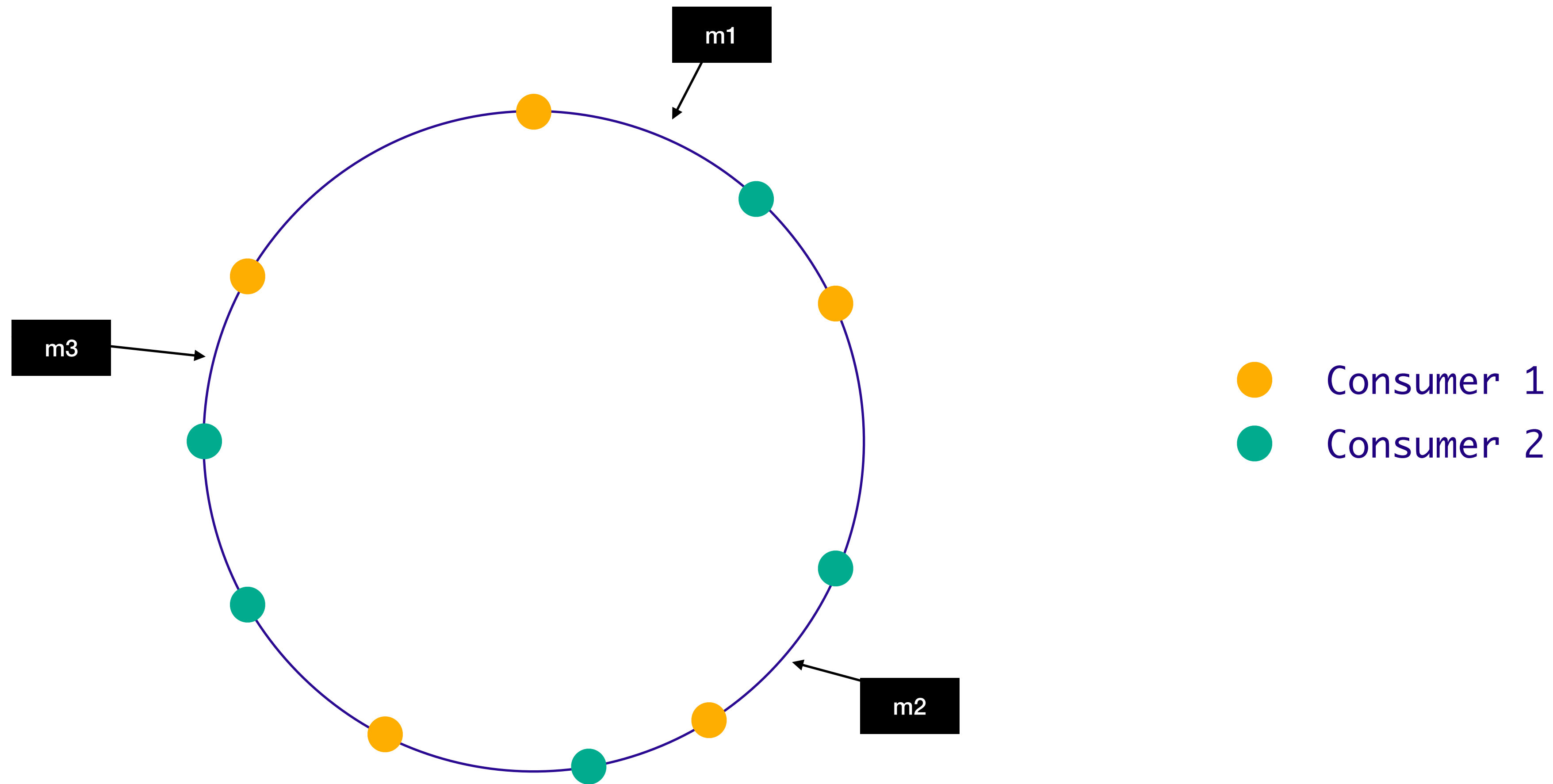
*# Used to specify multiple advertised listeners for the broker.  
# The value must format as <listener\_name>:pulsar://<host>:<port>,  
# multiple listeners should separate with commas.  
# Do not use this configuration with advertisedAddress and brokerServicePort.  
# The Default value is absent means use advertisedAddress and brokerServicePort.  
# advertisedListeners=*

*# Used to specify the internal listener name for the broker.  
# The listener name must contain in the advertisedListeners.  
# The Default value is absent, the broker uses the first listener as the internal listener.  
# internalListenerName=*

```
PulsarClient.builder()  
    .serviceUrl(url)  
    .listenerName("internal")  
    .build();
```



# [Key\_Shared] consistent hashing consumers distribution



# [Key\_Shared] Fix ordering issue in KeyShared dispatcher when adding consumers

9 8 7 6 5 4 3 2 1 0

Consumer-1

Consumer-2



# [Key\_Shared] Fix ordering issue in KeyShared dispatcher when adding consumers

9 8 7 6 5

4 3 2 1 0

Consumer-1



# [Key\_Shared] Fix ordering issue in KeyShared dispatcher when adding consumers

4 3 2 1 0

Consumer-1

Consumer-2

9 8 7 6 5



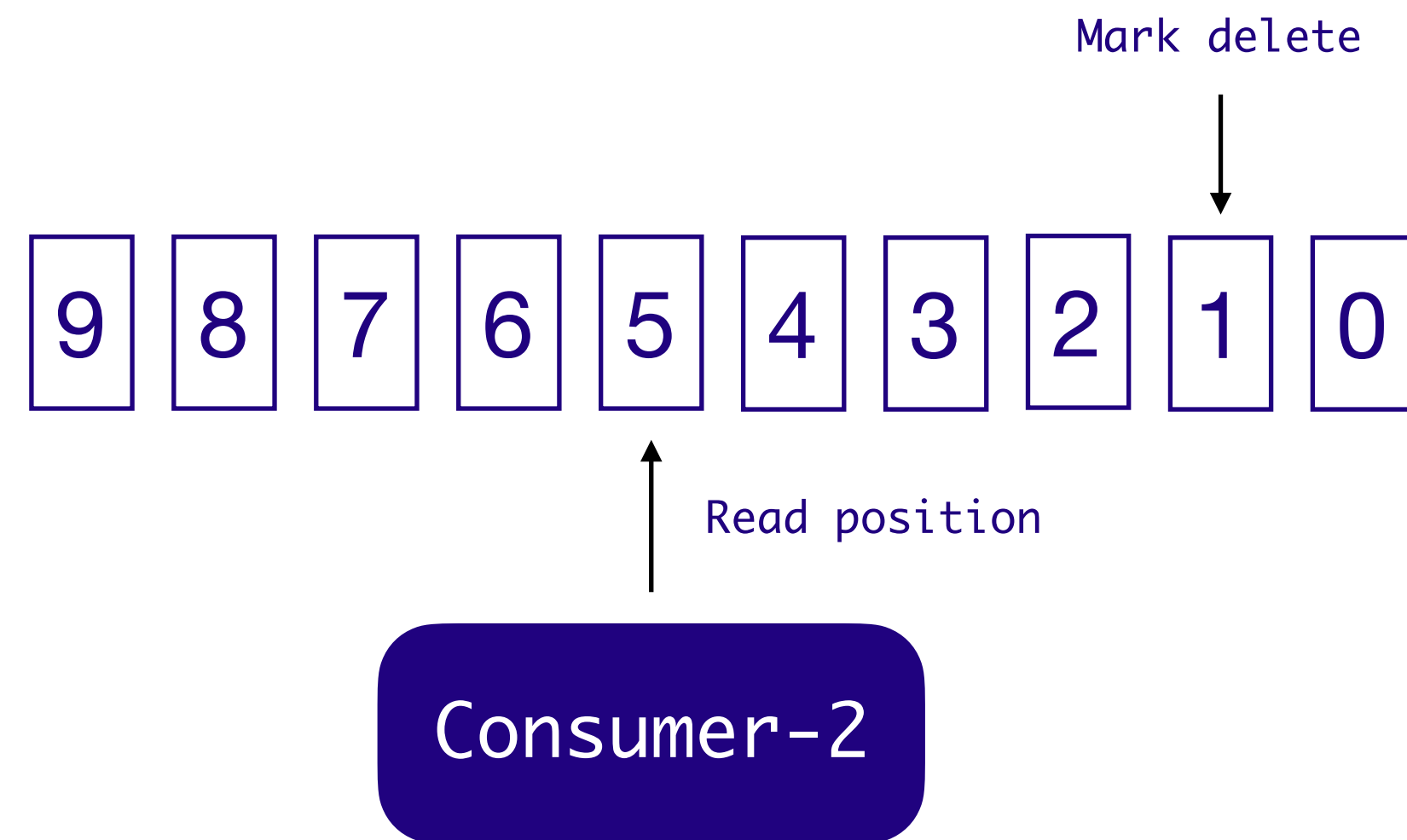


# [Key\_Shared] Fix ordering issue in KeyShared dispatcher when adding consumers

9	8	7	4	3	2	6	5	1	0
---	---	---	---	---	---	---	---	---	---



# [Key\_Shared] Fix ordering issue in KeyShared dispatcher when adding consumers



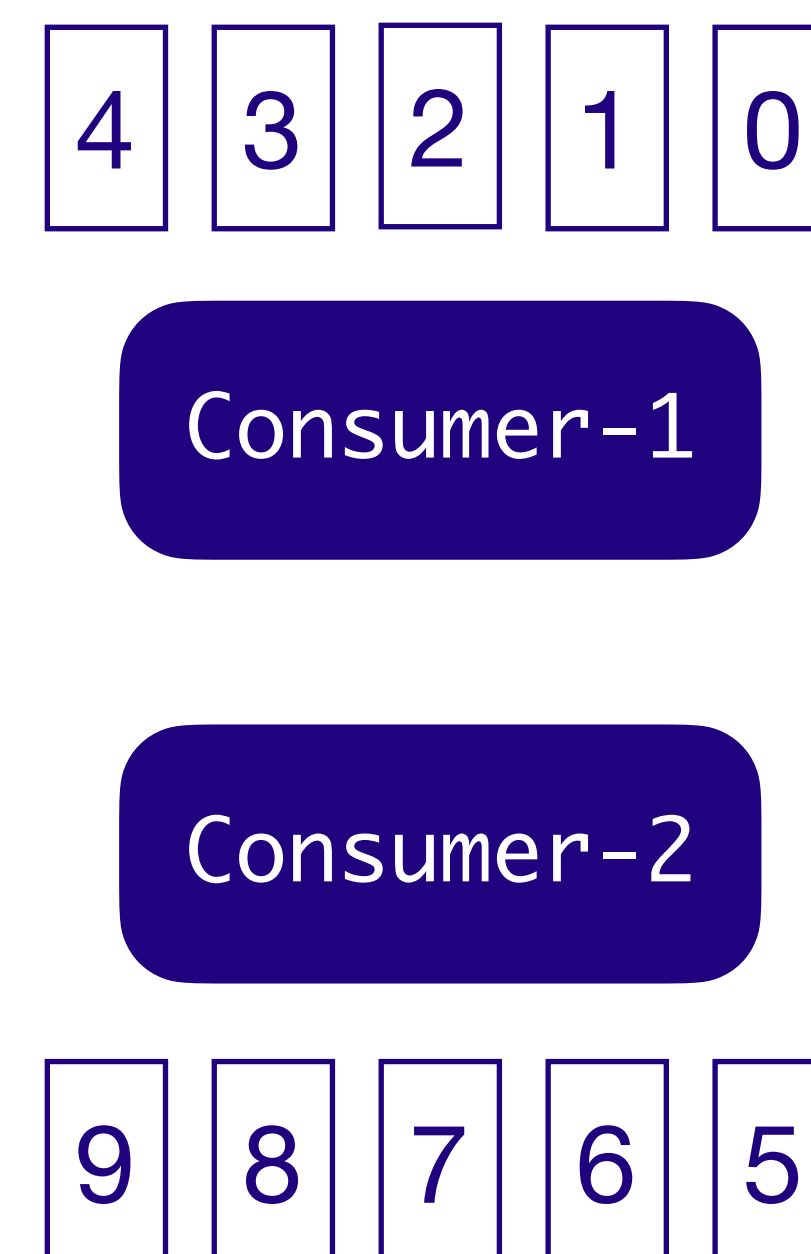
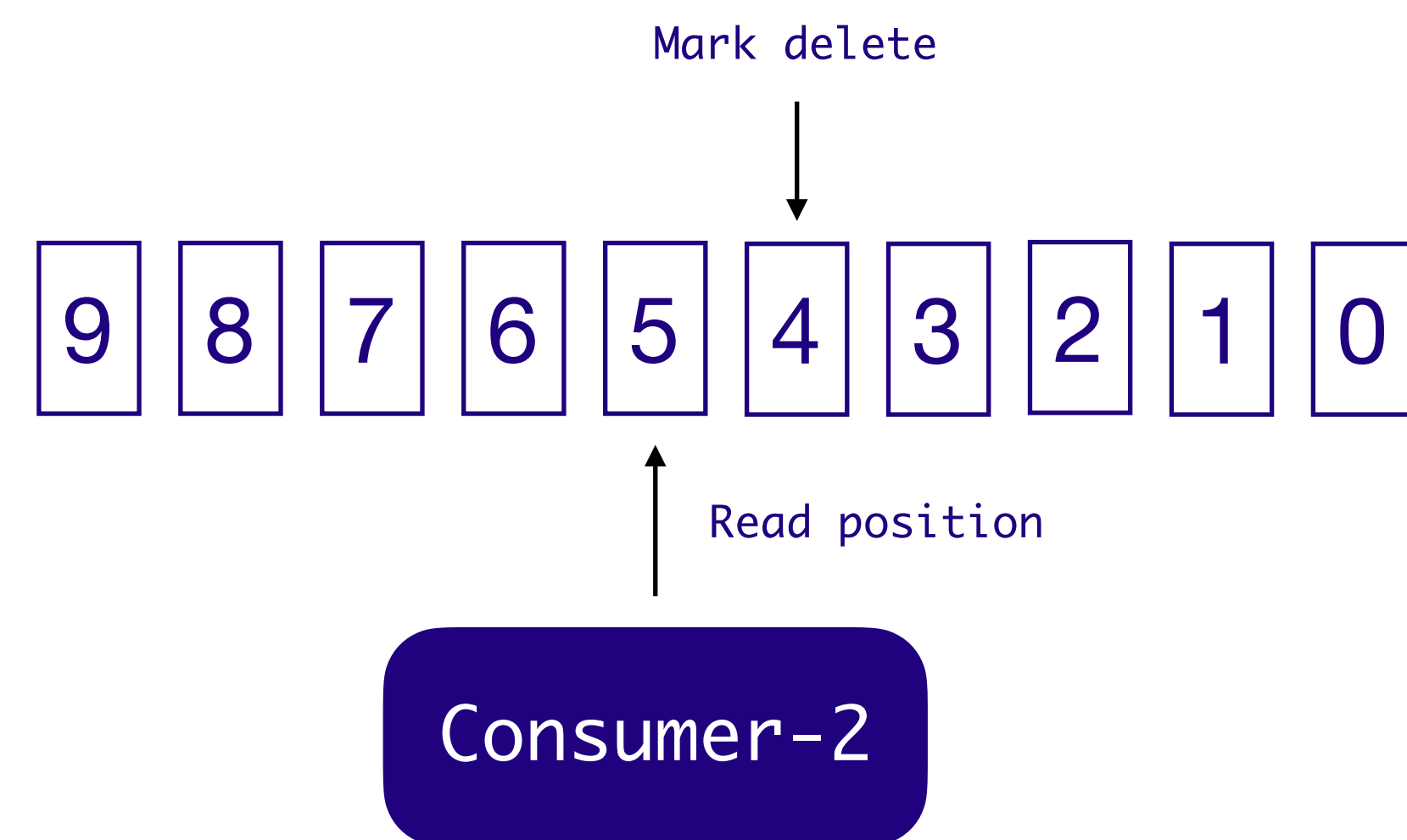
4 3 2 1 0

Consumer-1

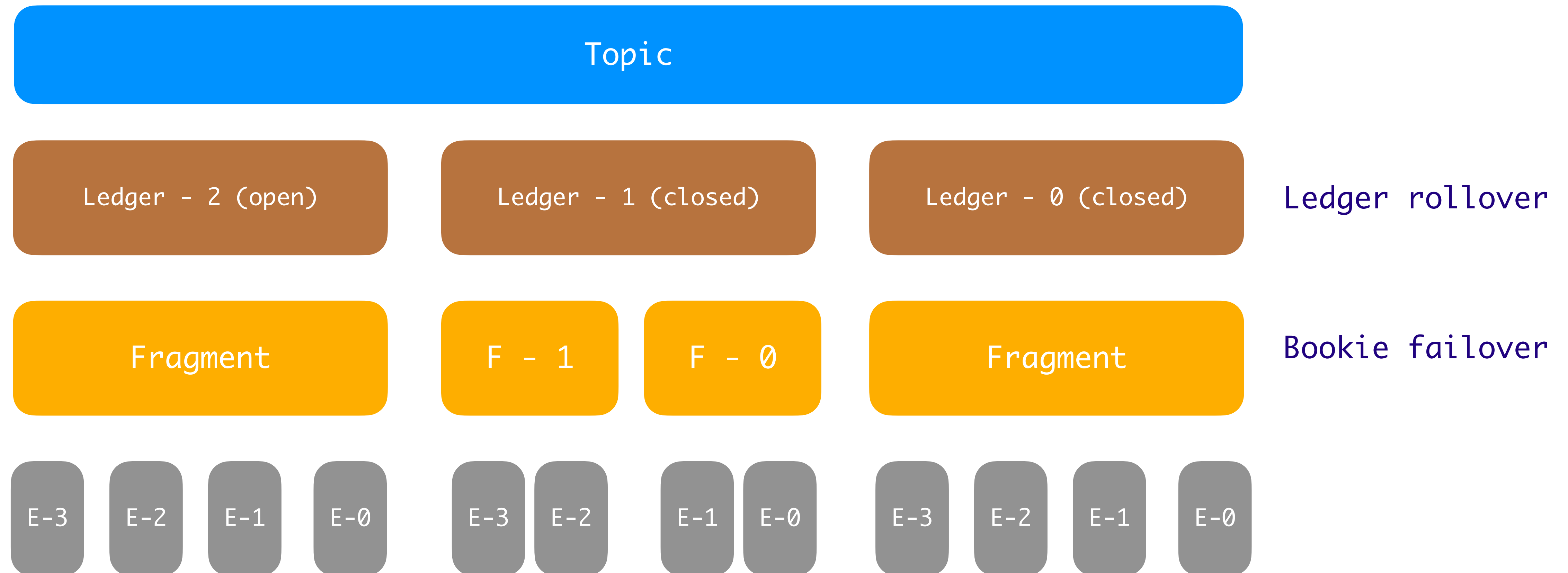
Consumer-2



# [Key\_Shared] Fix ordering issue in KeyShared dispatcher when adding consumers



# Support triggering ledger rollover when maxLedgerRolloverTimeMinutes is met



# Support triggering ledger rollover when maxLedgerRolloverTimeMinutes is met

*# Max number of entries to append to a ledger before triggering a rollover*  
*# A ledger rollover is triggered on these conditions*  
*# \* Either the max rollover time has been reached*  
*# \* or max entries have been written to the ledger and at least min-time*  
*# has passed*  
**managedLedgerMaxEntriesPerLedger=50000**

*# Minimum time between ledger rollover for a topic*  
**managedLedgerMinLedgerRolloverTimeMinutes=10**

*# Maximum time before forcing a ledger rollover for a topic*  
**managedLedgerMaxLedgerRolloverTimeMinutes=240**



# Expose check delay of new entries in broker.conf

*# New entries check delay for the cursor under the managed ledger.*  
*# If no new messages in the topic, the cursor will try to check again after the delay time.*  
*# For consumption latency sensitive scenario, can set to a smaller value or set to 0.*  
*# Of course, use a smaller value may degrade consumption throughput. Default is 10ms.*  
**managedLedgerNewEntriesCheckDelayInMillis=10**



# [Pulsar Client]

1. Support waiting for inflight messages while closing a producer
2. Support returning sequence ID when throwing an exception

```
public PulsarClientException(String msg, long sequenceId) {  
    super(msg);  
    this.sequenceId = sequenceId;  
}
```



# [Pulsar SQL]

- 1. Support key value schema
- 2. Support multiple Avro schema versions

```
presto> select * from pulsar."public/default"."my-topic";
```

__key.userid	__key.username	orderid	orderno
5	7b541c33-5194-41ef-930f-5340eb456874	500	f1a55faa-c98e-4eb5-9c35-2ee18842c8ba
6	25fa9398-4e9d-4ac3-8bea-11fef3f94e35	600	9d9788ac-86fa-4f7b-a9a8-b590645a4a0c
7	fd299784-56c3-405f-a83c-298530d754cb	700	4388bf9b-d8c1-4006-b372-36c0fdb4c346
8	d359df54-ae59-43f4-b9b3-b35f16c8d048	800	376f676a-3df5-489c-b6f4-bce612932b31
0	978dca2a-91eb-483e-be6d-13ae2080bfa3	0	c72ce85d-c32a-43cb-b386-b4f568c66886
1	79337b28-aba3-42e5-af38-66ce654564ca	100	56163058-392c-46c5-97f7-03b4c040c59f
2	3c7f2eca-2628-469c-bb7f-cfbbdcd6818f	200	f759e431-016f-4db0-830f-cb3ec2ed76fe
3	60fe37a2-e937-4075-a3df-ad2472472a72	300	101dd595-43fa-4b9b-8cc5-cb3addd294e8
4	79c5404b-b46e-43f0-b787-884189633923	400	75405a8a-ac8f-449b-9132-2f1871cab45f





# Precise topic publish rate limiting

```
preciseTopicPublishRateLimiterEnable=true
```



# Optimize consumer fetch messages in case of batch message

---

```
# Precise dispatcher flow control according to history message number of each entry  
preciseDispatcherFlowControl=false
```

