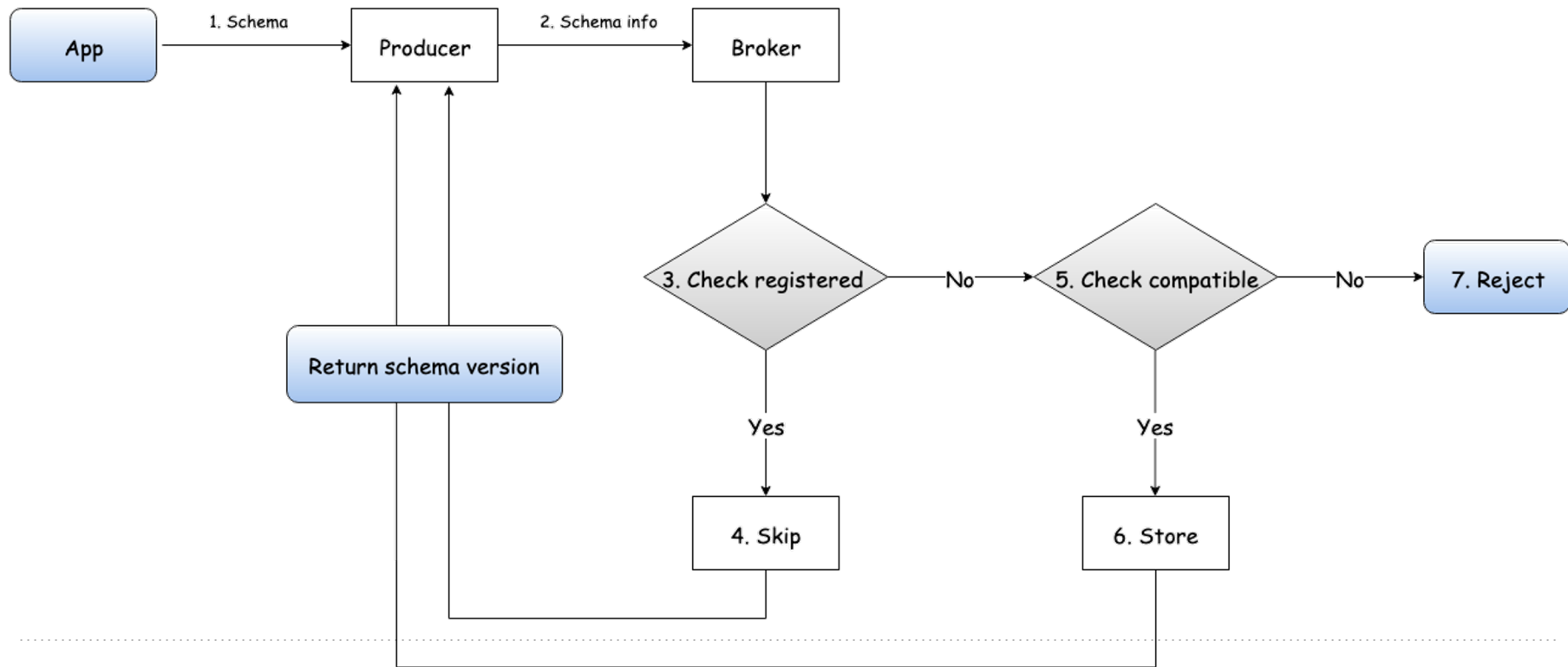


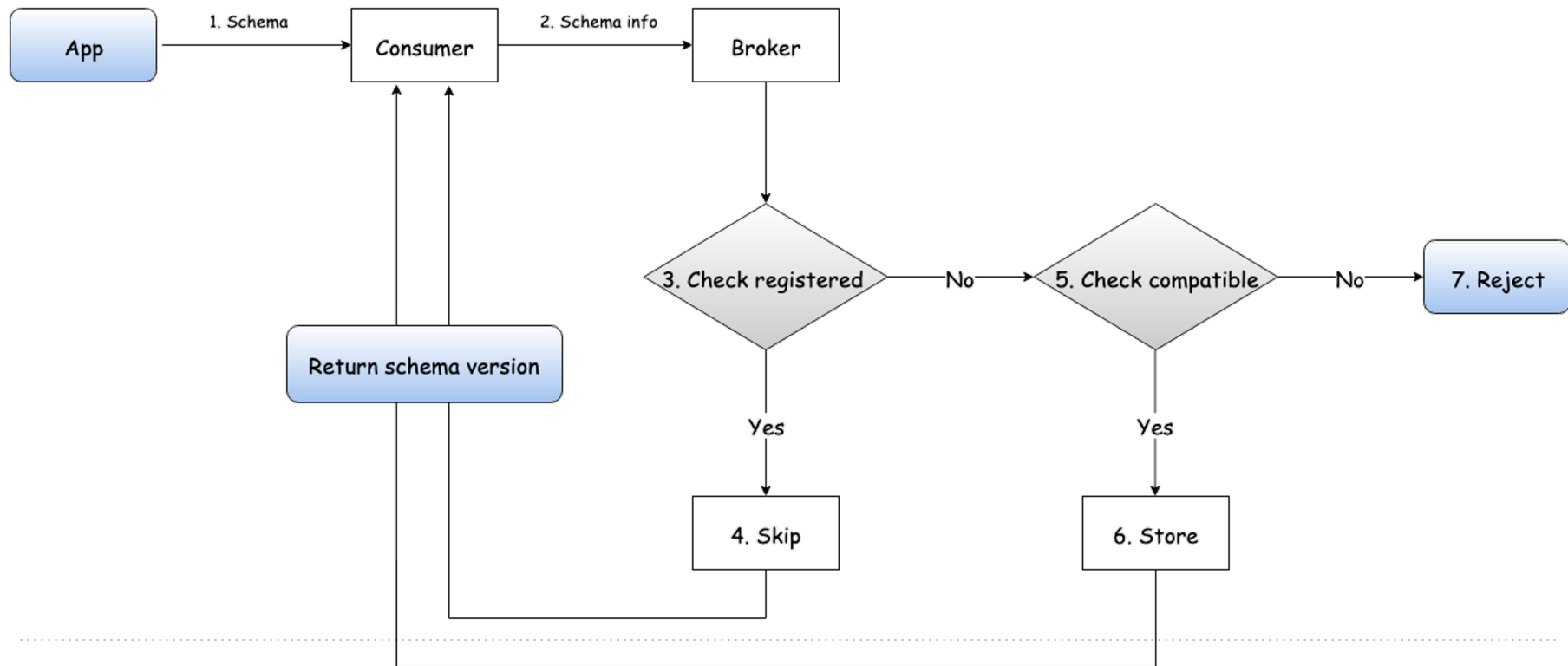
*TGIP Episode 013*

# Pulsar Schema and Presto SQL

# Producer



# Consumer



# Schema compatibility check

- ✓ Schema Compatibility Checker
  - ✓ One checker per schema type
  - ✓ Configured by ``schemaRegistryCompatibilityCheckers``
  - ✓ Only AVRO and JSON supports schema evolution for now
  - ✓ All other schema types don't allow schema evolution

# Compatibility check

Strategy	Changes Allowed	Check against what schemas	Upgrade first
<b>ALWAYS_INCOMPATIBLE</b>	All changes are disabled	All previous versions	None
<b>ALWAYS_COMPATIBLE</b>	All changes are allowed	Latest version	Depends
<b>BACKWARD</b>	<ul style="list-style-type: none"><li>• Delete fields</li><li>• Add optional fields</li></ul>	Latest version	Consumers
<b>FORWARD</b>	<ul style="list-style-type: none"><li>• Add fields</li><li>• Delete optional fields</li></ul>	Latest version	Producers
<b>FULL</b>	Modify optional fields	Latest version	Any Order

# Order of upgrading clients

## ✓ BACKWARD

- ✓ Upgrade all consumers before producing new events

## ✓ FORWARD

- ✓ Upgrade all producers to new schema
- ✓ Make sure the data produced using old schemas are not available to consumers anymore
- ✓ Then upgrade producers and consumers independently

## ✓ FULL

- ✓ Upgrade producers and consumers independently

## ✓ ALWAYS\_COMPATIBLE

- 
- ✓ Be cautious about when to upgrade clients



# Transitive vs Non-Transitive

Backward  
Forward  
Full



Backward  
Forward  
Full  
(Transitive)



# Multi versions

