

```

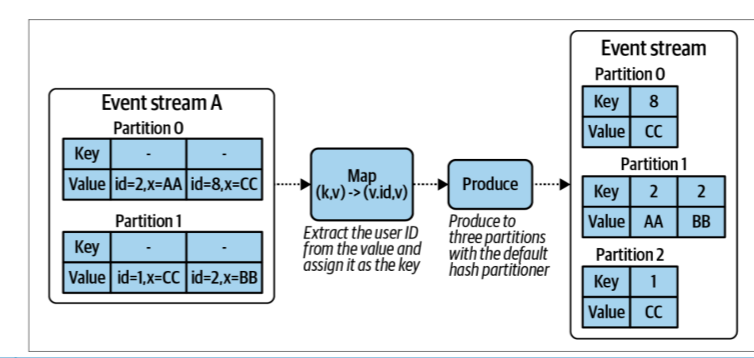
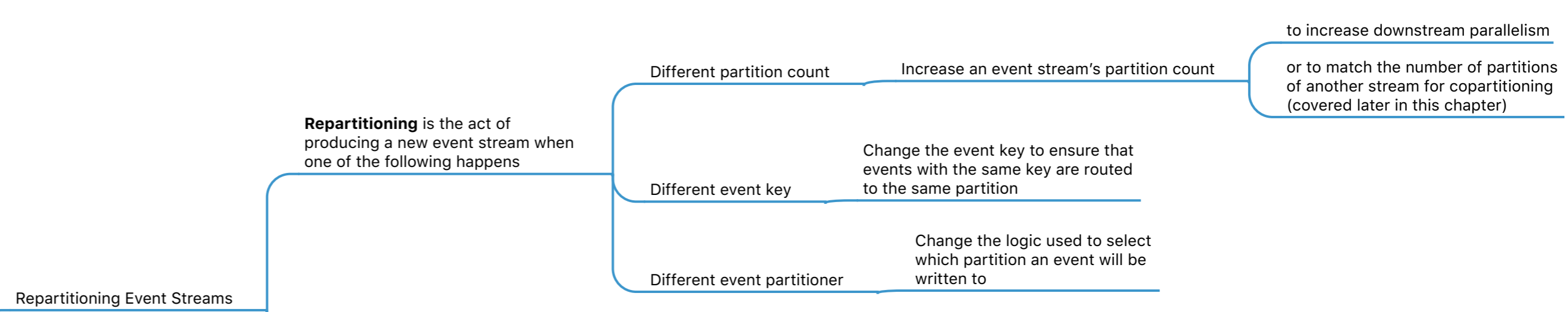
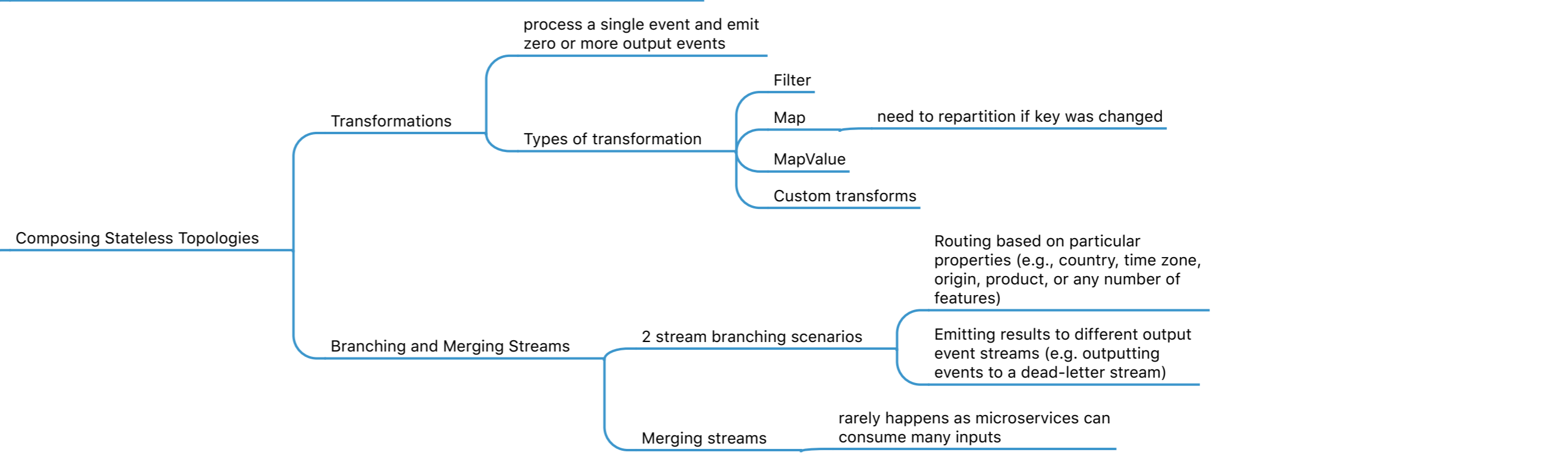
Consumer consumerClient = new consumerClient(consumerGroupName, ...);
Producer producerClient = new producerClient(...);

while(true) {
    InputEvent event = consumerClient.pollOneEvent(inputEventStream);
    OutputEvent output = processEvent(event);
    producerClient.produceEventToStream(outputEventStream, output);

    //At-least-once processing.
    consumerClient.commitOffsets();
}

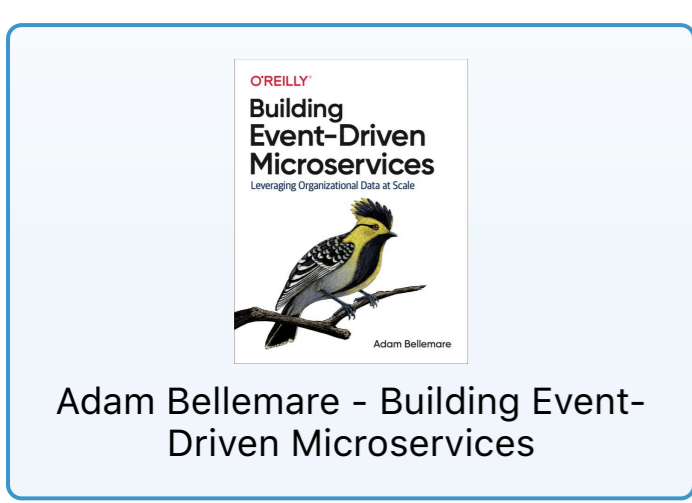
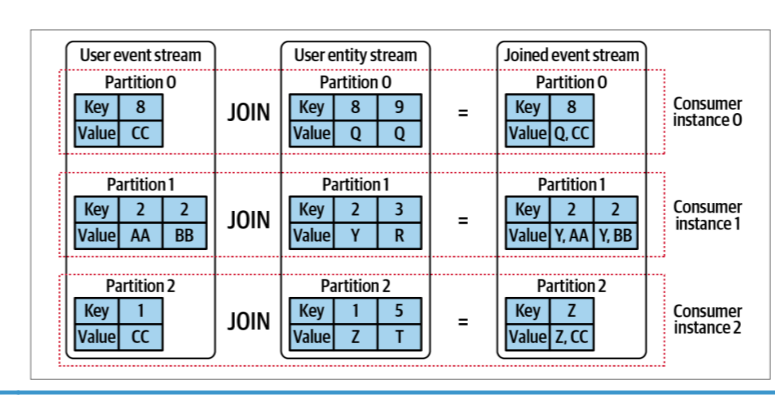
```

Typical stream-sourced event-driven microservice pseudocode



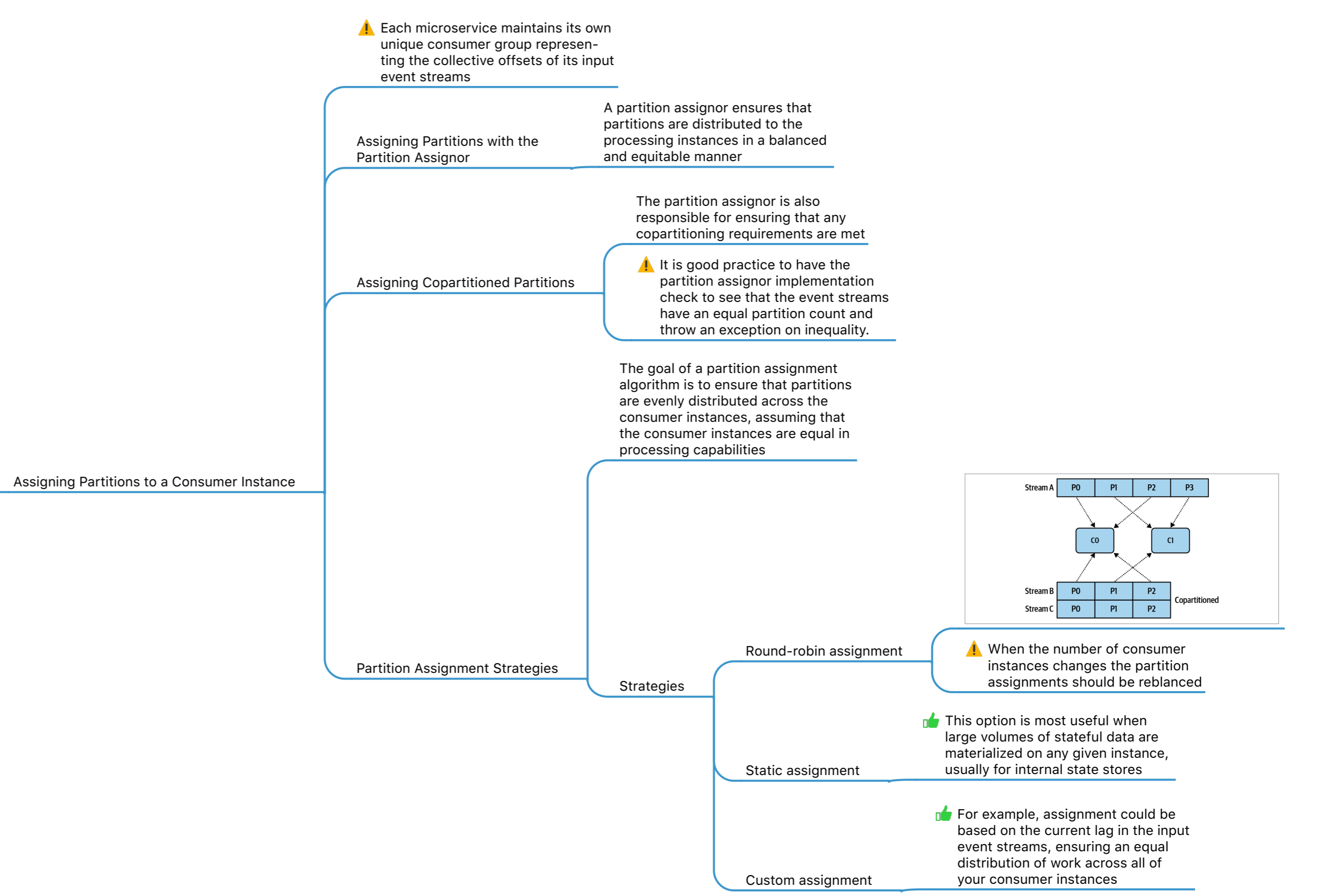
Copartitioning is the repartition of an event stream into a new one with the same partition count and partition assignor logic as another stream

⚠ This is an important concept for stateful stream processing, as numerous stateful operations (such as streaming joins)



5. Event-Driven Processing Basics

Copartitioning Event Streams



Recovering from Stateless Processing Instance Failures

⚠ the same as simply adding a new instance to a consumer group