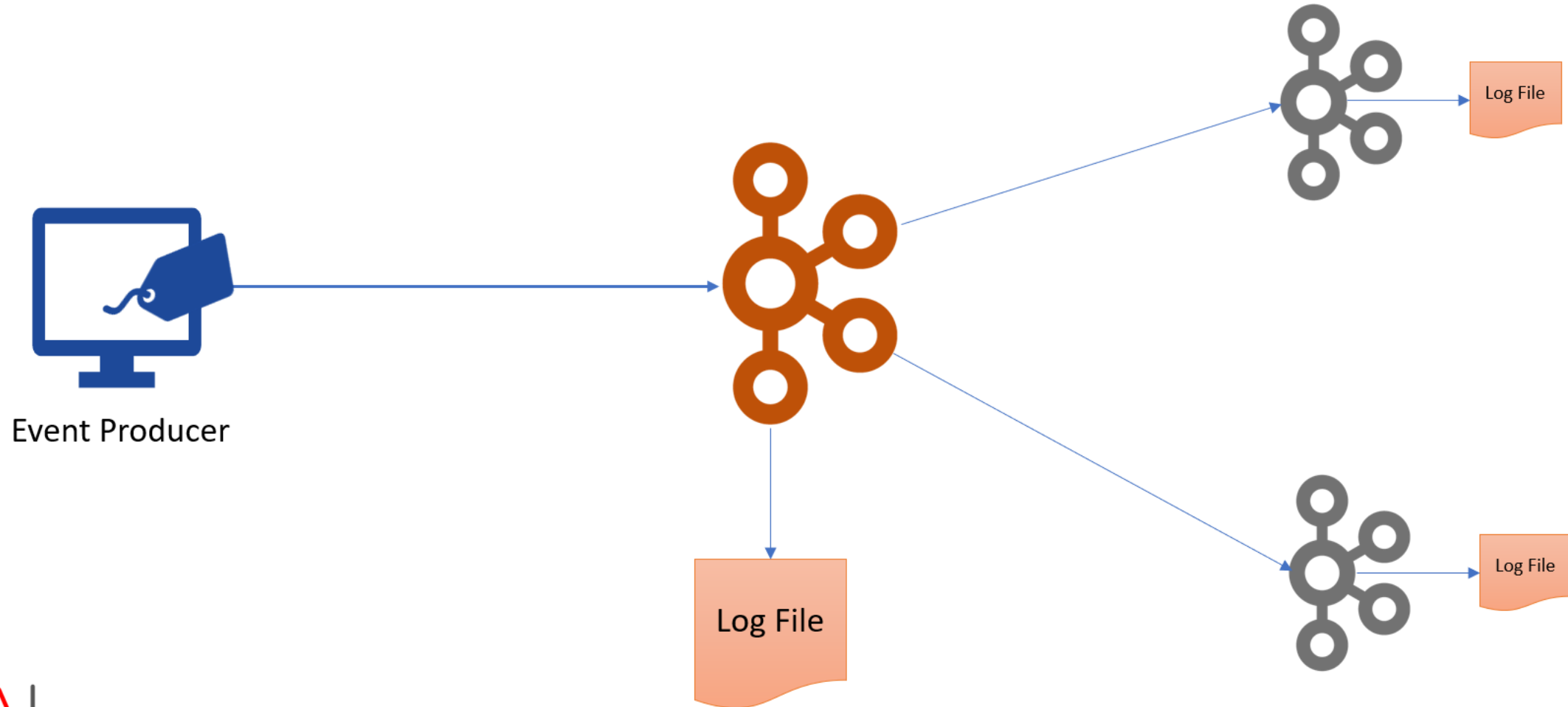


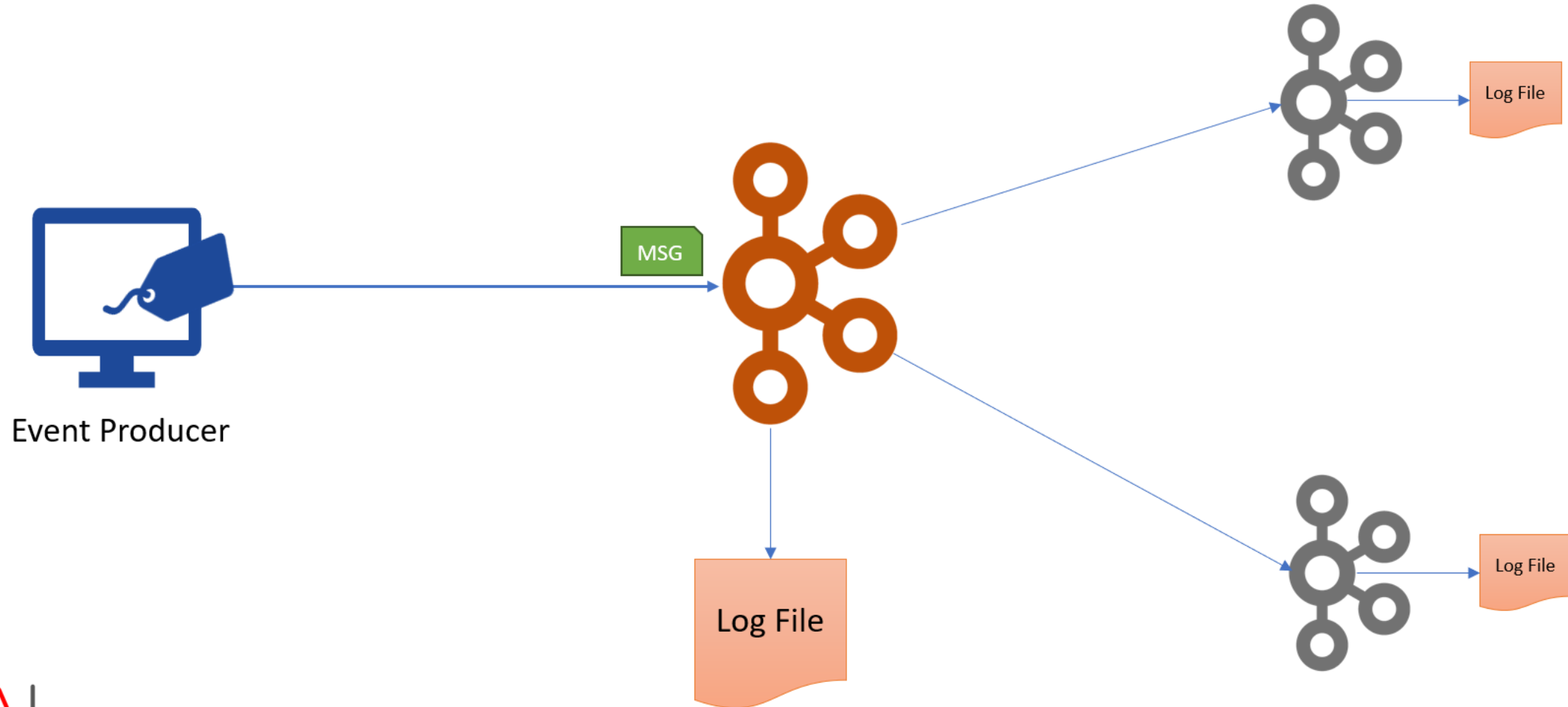
# Advanced Kafka Producers

(Idempotence – Exactly Once)

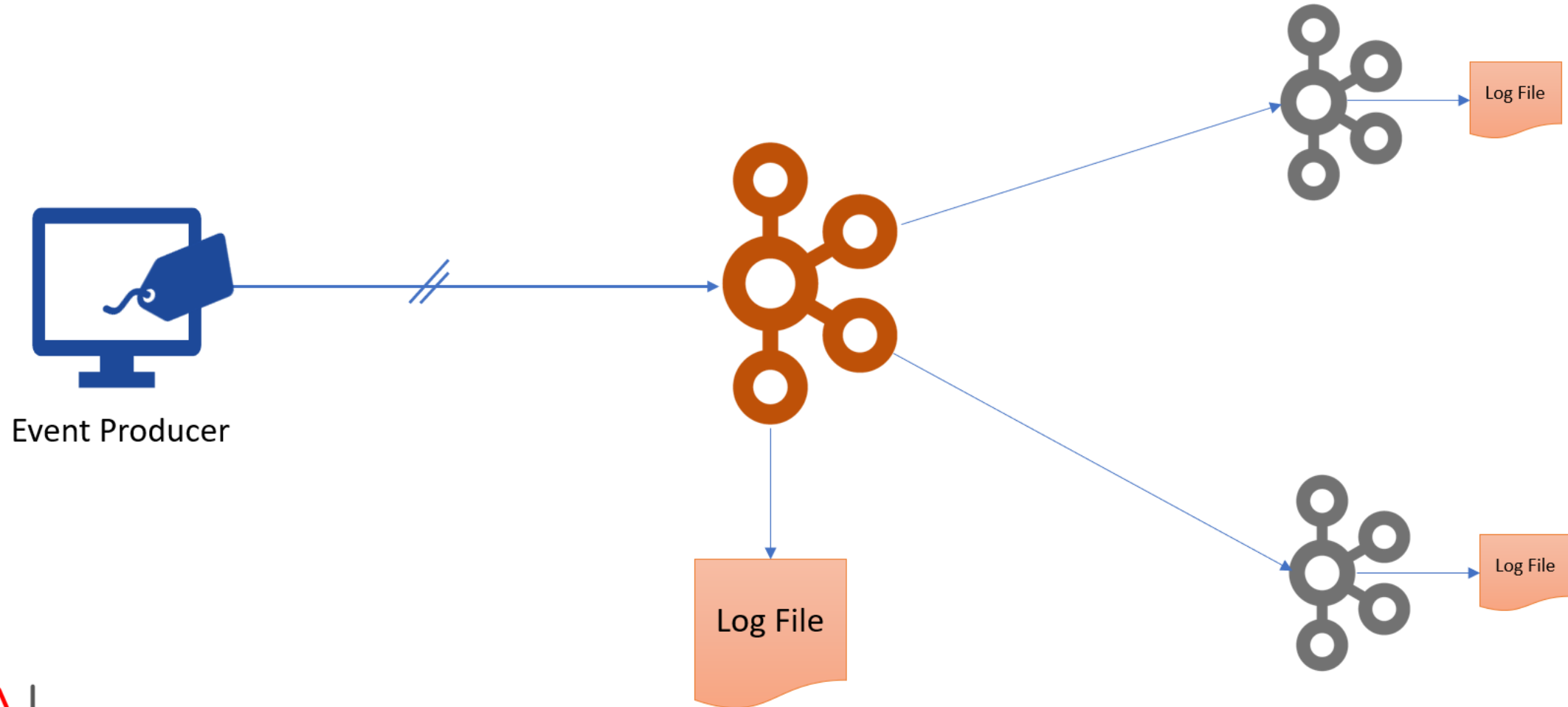
# At Least Once



# At Least Once

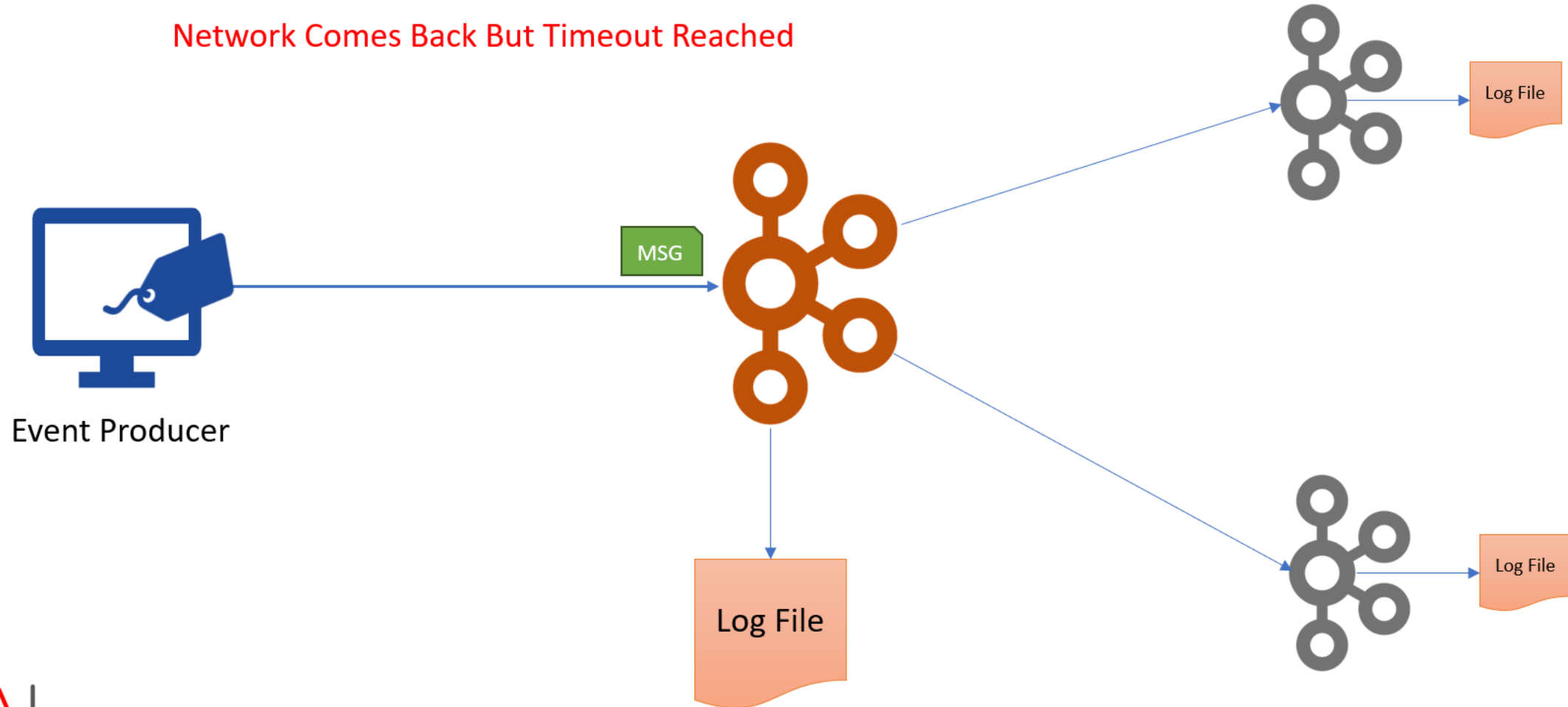


# At Least Once

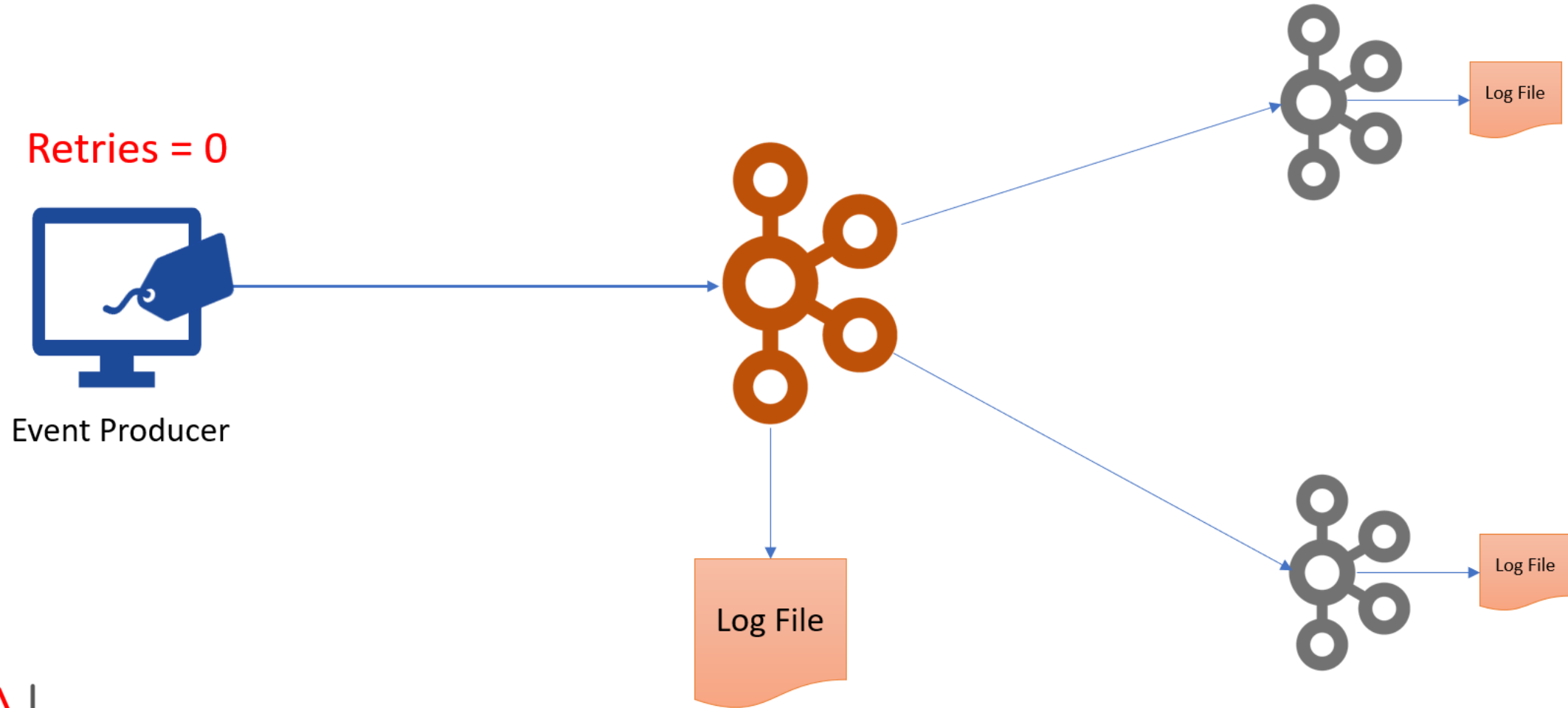


# At Least Once

Network Comes Back But Timeout Reached



# At Most Once

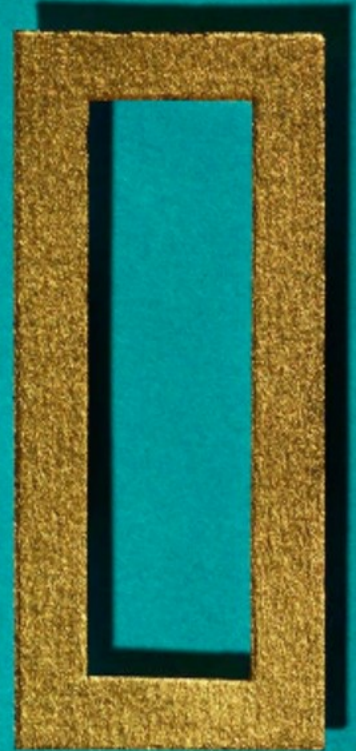


## How to Implement Exactly Once?

# Exactly Once

**enable.idempotence=true**

1. Internal ID for Producer Instance
2. Message Sequence Number





# Exactly Once

**enable.idempotence=true**

