

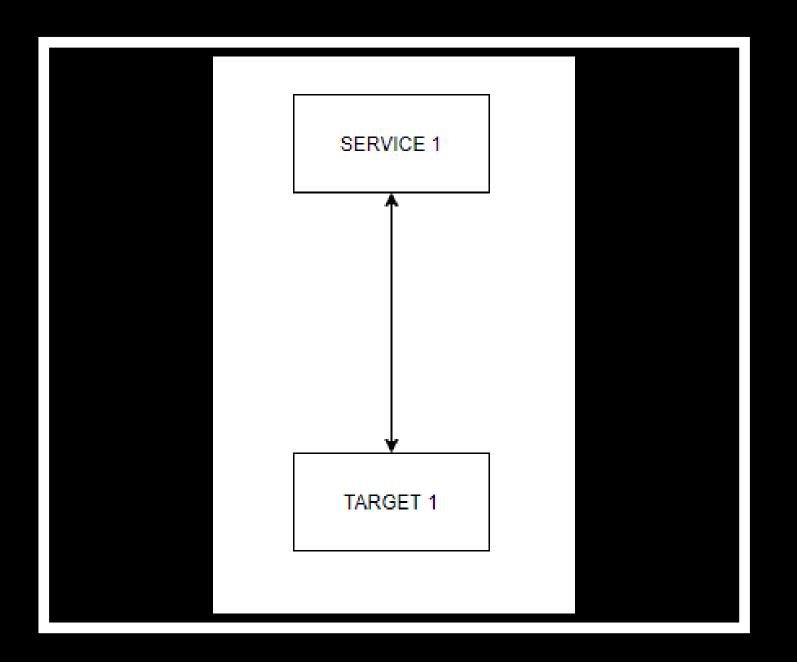
LEONEL AGUILAR SISTEMAS OPERATIVOS 1 CLASE 12

Kafka

Topics, Brokers, Producers y Consumers

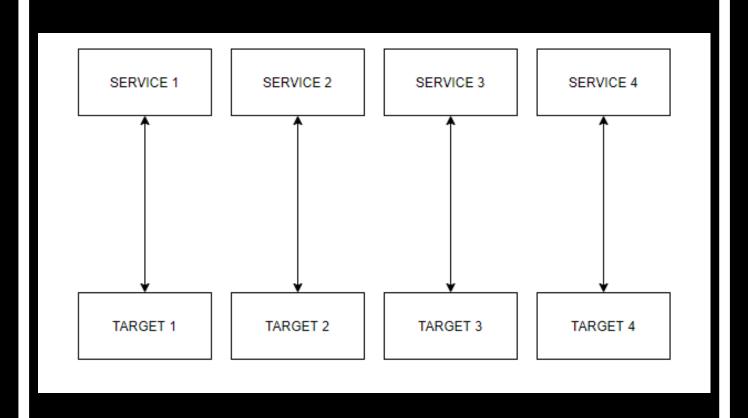
AGENDA

- 1. Kafka Overview
- 2. Conceptos importantes de Kafka
- 3. Ejemplo Kafka
- 4. Kahoot



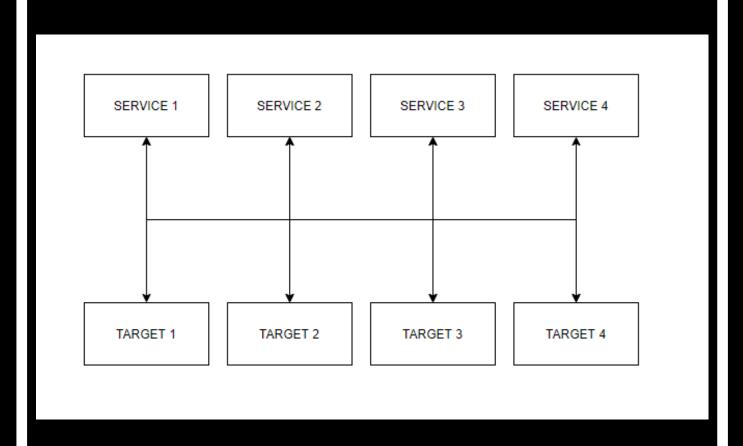
¿Cómo empiezan las compañías?

Servicios pequeños que se conectan entre sí



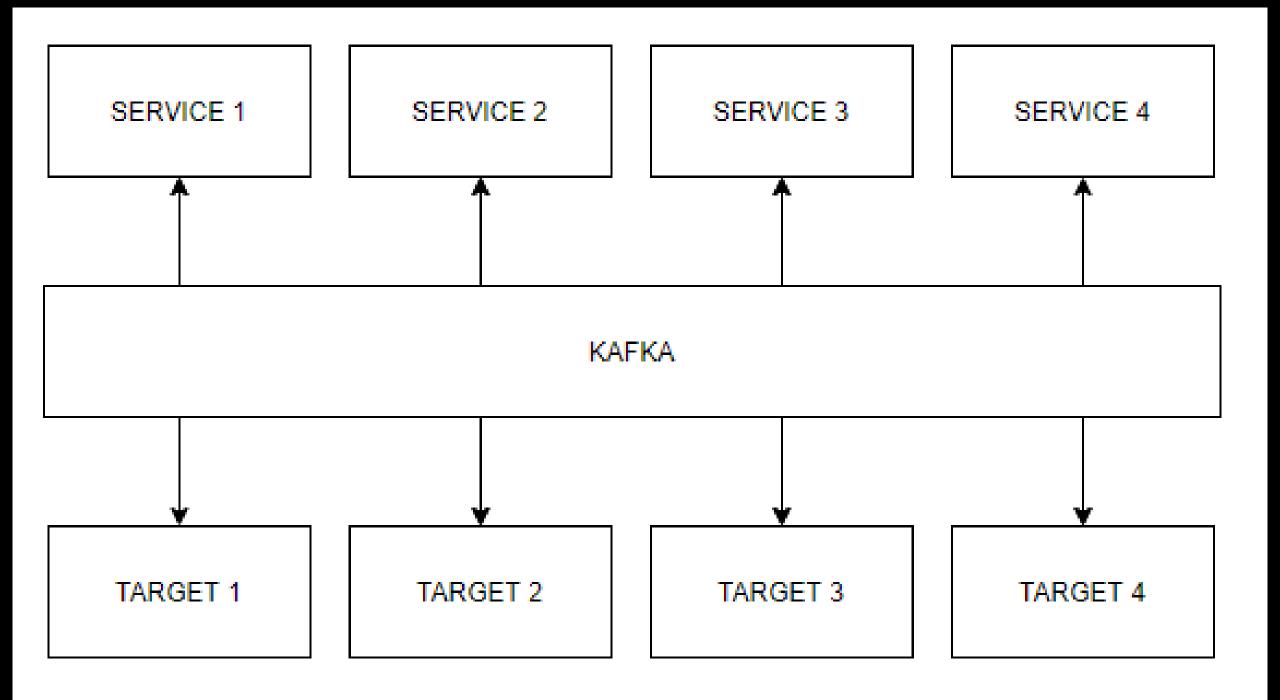
¿Cómo empiezan las compañías?

Empiezan a crecer y a necesitar interconexión



¿Cómo empiezan las compañías?

Se necesita iniciar a interconectar todo









Se Katka A distributed streaming platform

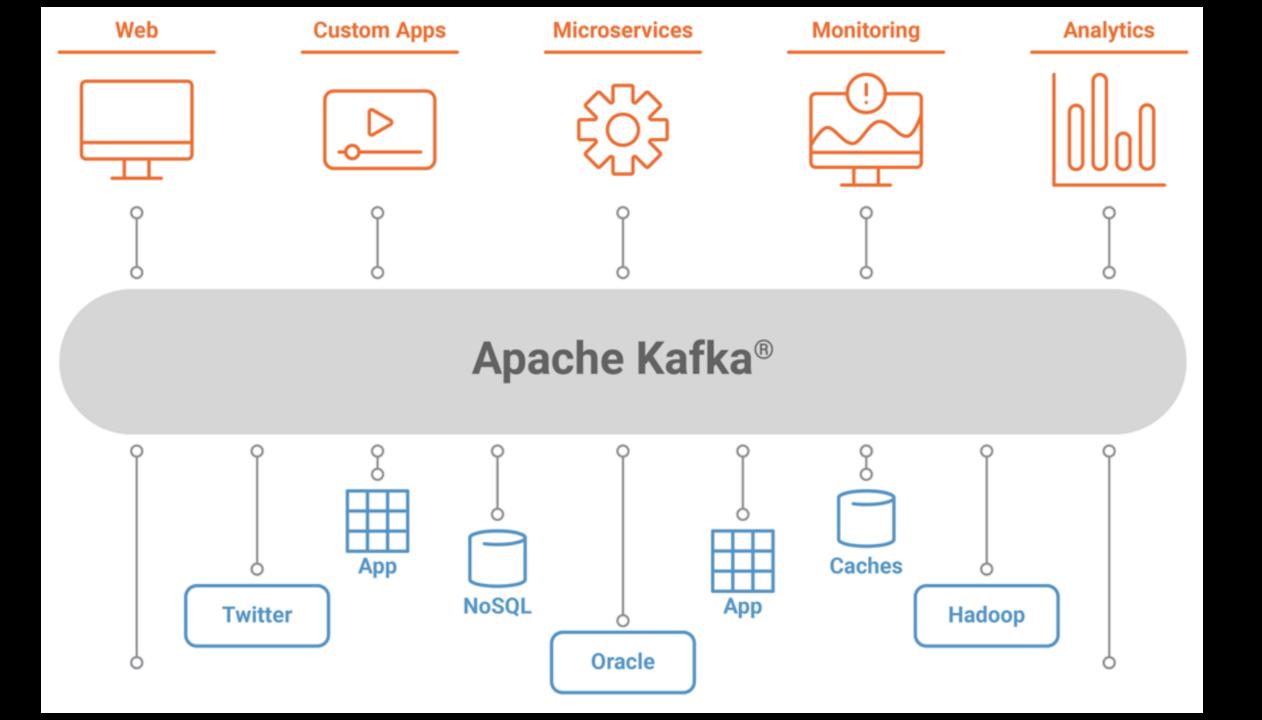




NETFLIX

Uber

















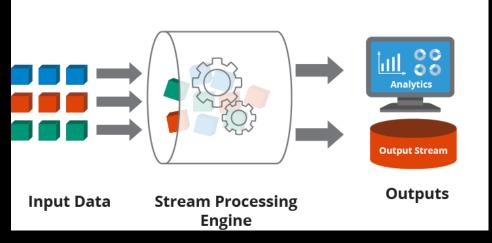






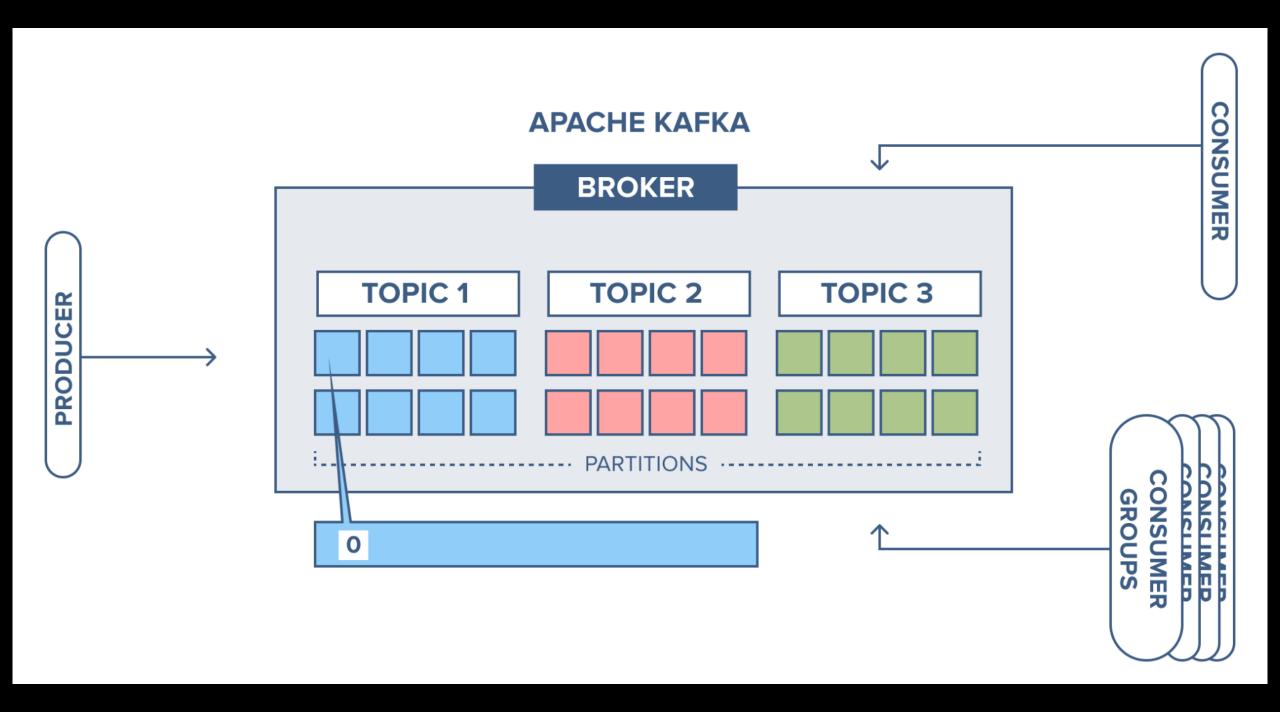




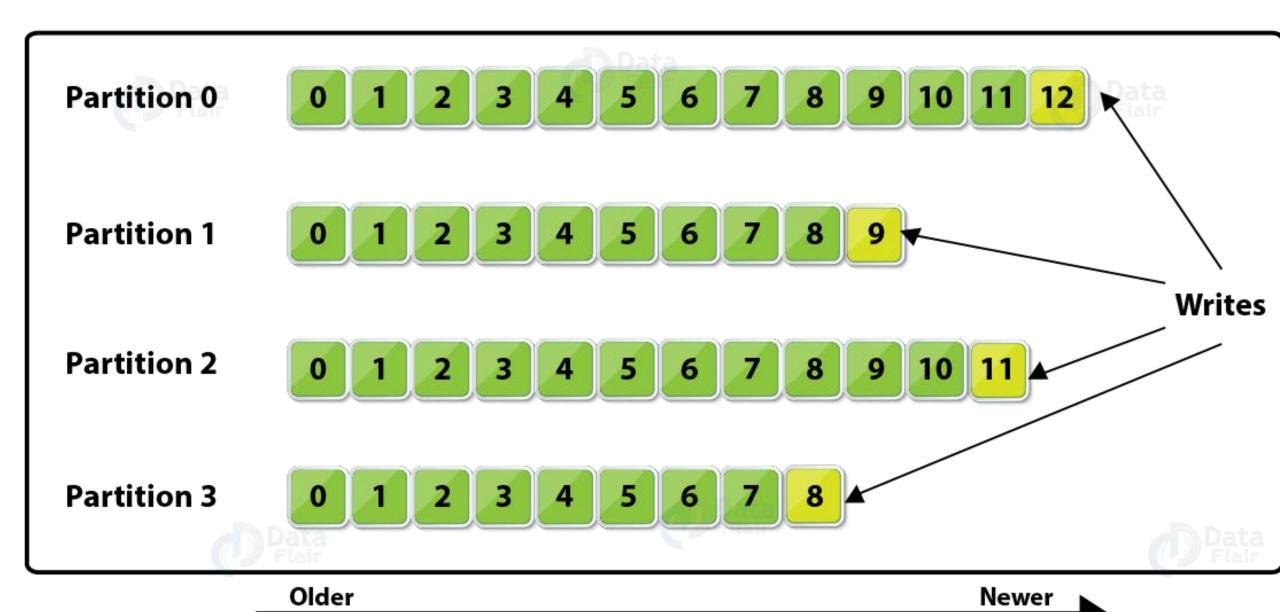


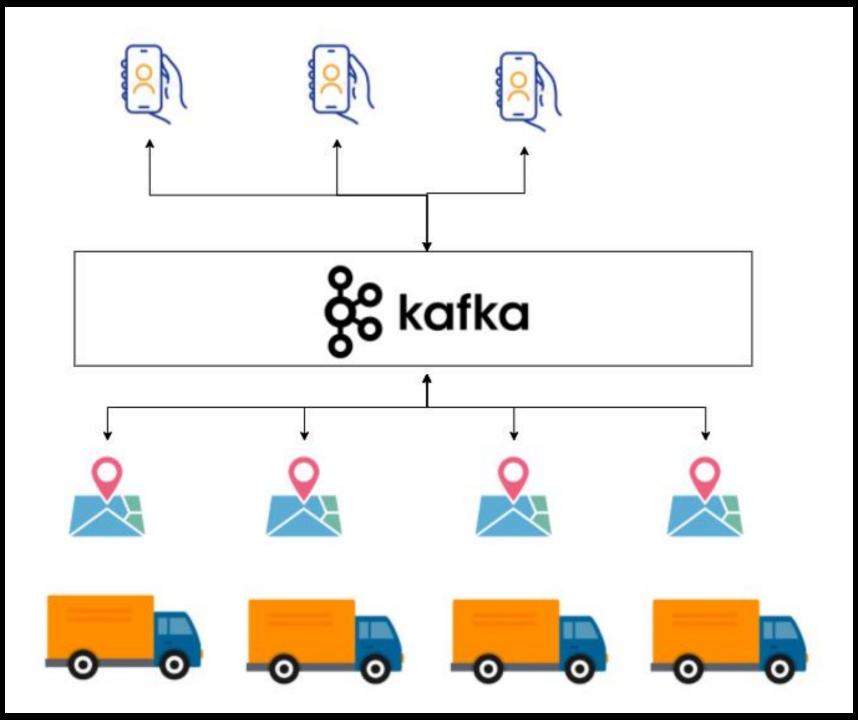


CASOS DE USO

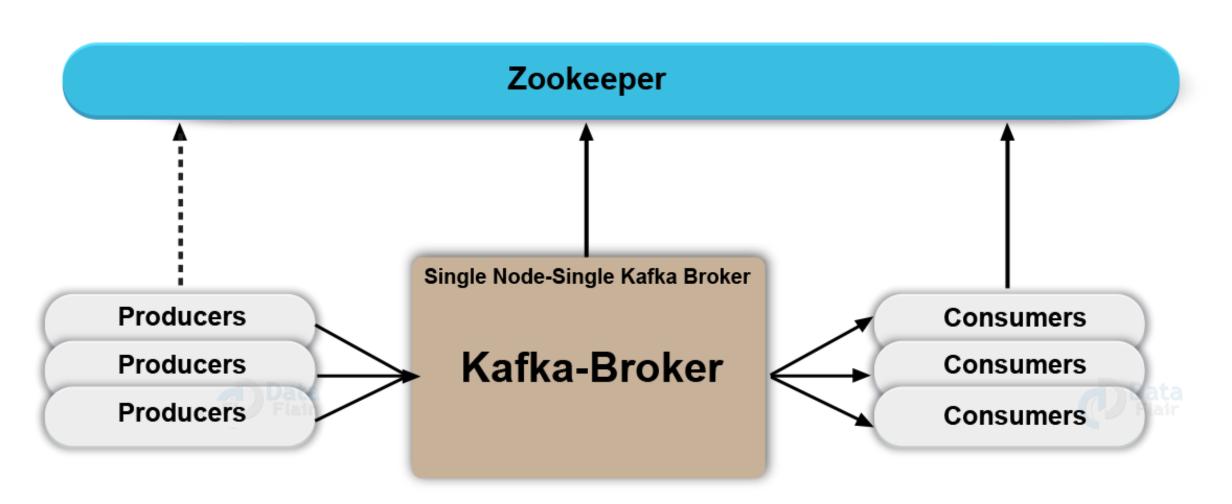


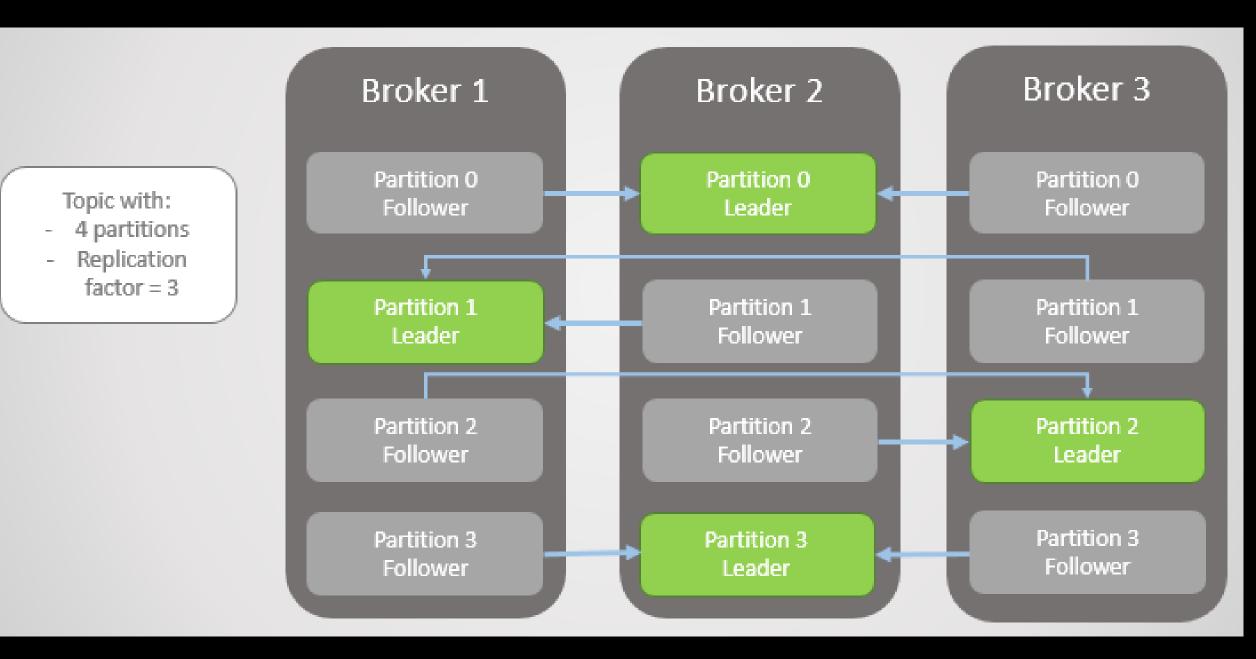
Kafka Topic Partitions Layout

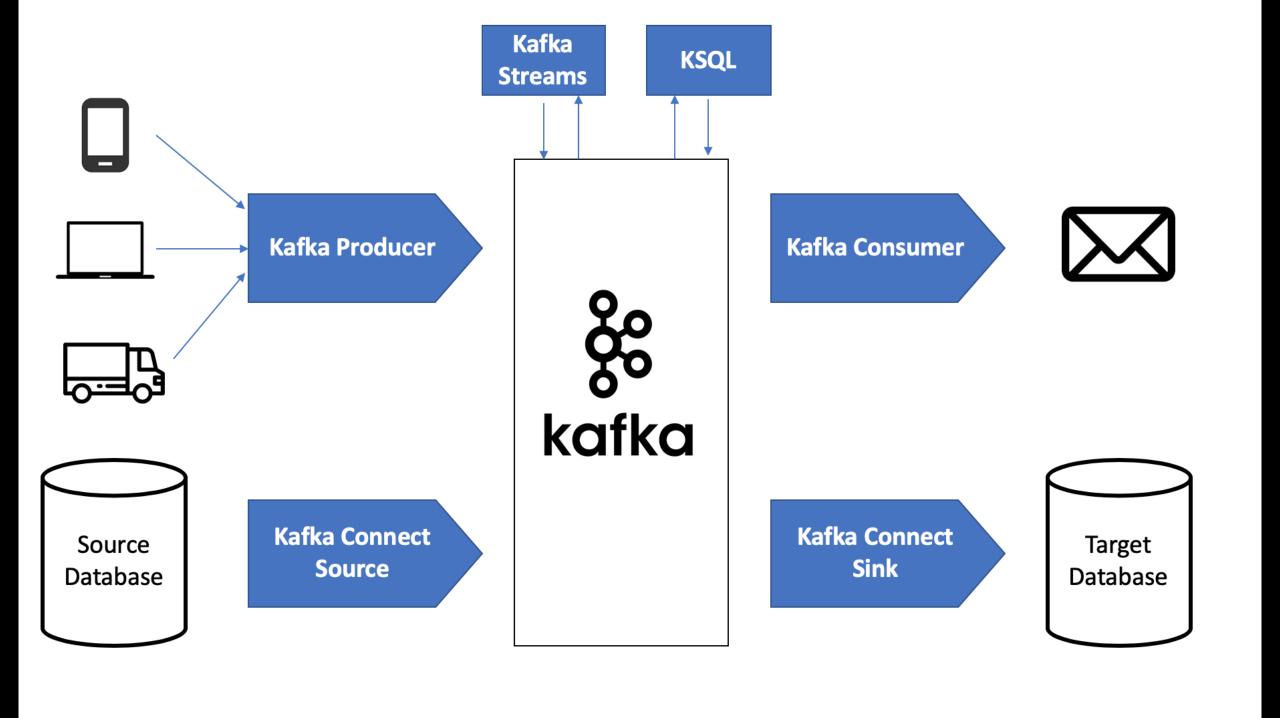


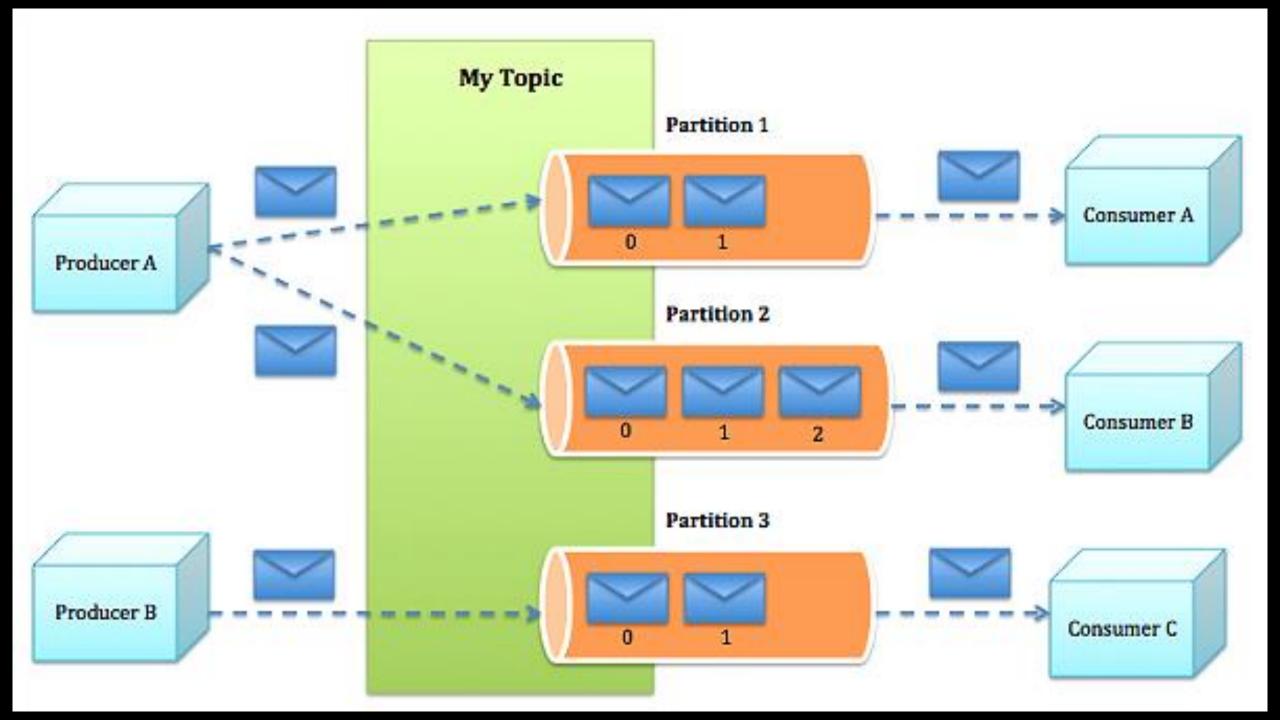


Apache & Kafka Broker









```
\mathbf{z}
                                          	imes G
                                                                                         ь
                                                                                                                            o
j
T
       9
                                                                                         0
                                                                                                                     \mathbb{K}
                          \mathbf{H} +
                           L2
                                                                                         1-I
M
                                          s 2
                           L_{2}
                                                                                                                             0
                                          4 <
\mathbb{Z}_{\leq}
                                                                                                                             \times
                                           & £
                                                              PH 99
                                                                                                                             d
                                                                                                                             đ
                                          e
i
                                                              8
                                                                                                                                        m 8
                                          上
                                                              \mathbf{g}
                                                                                                                                        PI
                                                                                                                                        u \circ
                                   Y
                                                                                                                                         4
                                                                                                                                            7
                                                                                                                                                    C
                                                                                                 \mathbf{h}
                                                                                                             Н
                                                                                      Ъ
                                                                                                 d
                                                                                                                                                    Ι
                                                                                                             U
                                   \times ]
                                                                                                 \mathbf{z}
                                                                                                                                                    0
           Ν
                                                                                                                                     <u>s</u>
                                                                                                 0
                                                                                                              1
           8
                                   zA
                                                                                                                                                    0
           $
                                   £
                                                                                     \mathbf{z}
                                                                                             \circ L
                       I
                                                                                                                                    ρS
                                      0
                                                                                             \sigma_{W}
           上
                       10
                                                                                                                                    t.
O
                                      5
                                                                                                 7
   0
            Н
                       \mathbf{r}
                                                  8 9
   4
                                                                                                 0
                       ш
                                                  \sim 4
   á
                                                                              Ü
                                                  7
   \mathbf{h}
                                                                              0
                                                                                             엹
                                                                                                                 \mathbf{n}
                                                                              ⊚
                                       ξe
                                                  g
                                                  TE
                                                                  \mathbf{z}
                                                                                             0
                                                                                                                                 8
                                                  h >
                                                                  JT
                                                                                                         Y
                                                                                                                 ij
                                                                                                         #
                                                                  \mathbb{R} \cup
                                                                              q
                                                                                                                 30
                                                                  ` d
                                                                                                          €
                                                                                                                 14
                                                                  \times \varepsilon_{\rm c}
                                                                                                                                 g
                                                                                                     4
               P 11
```