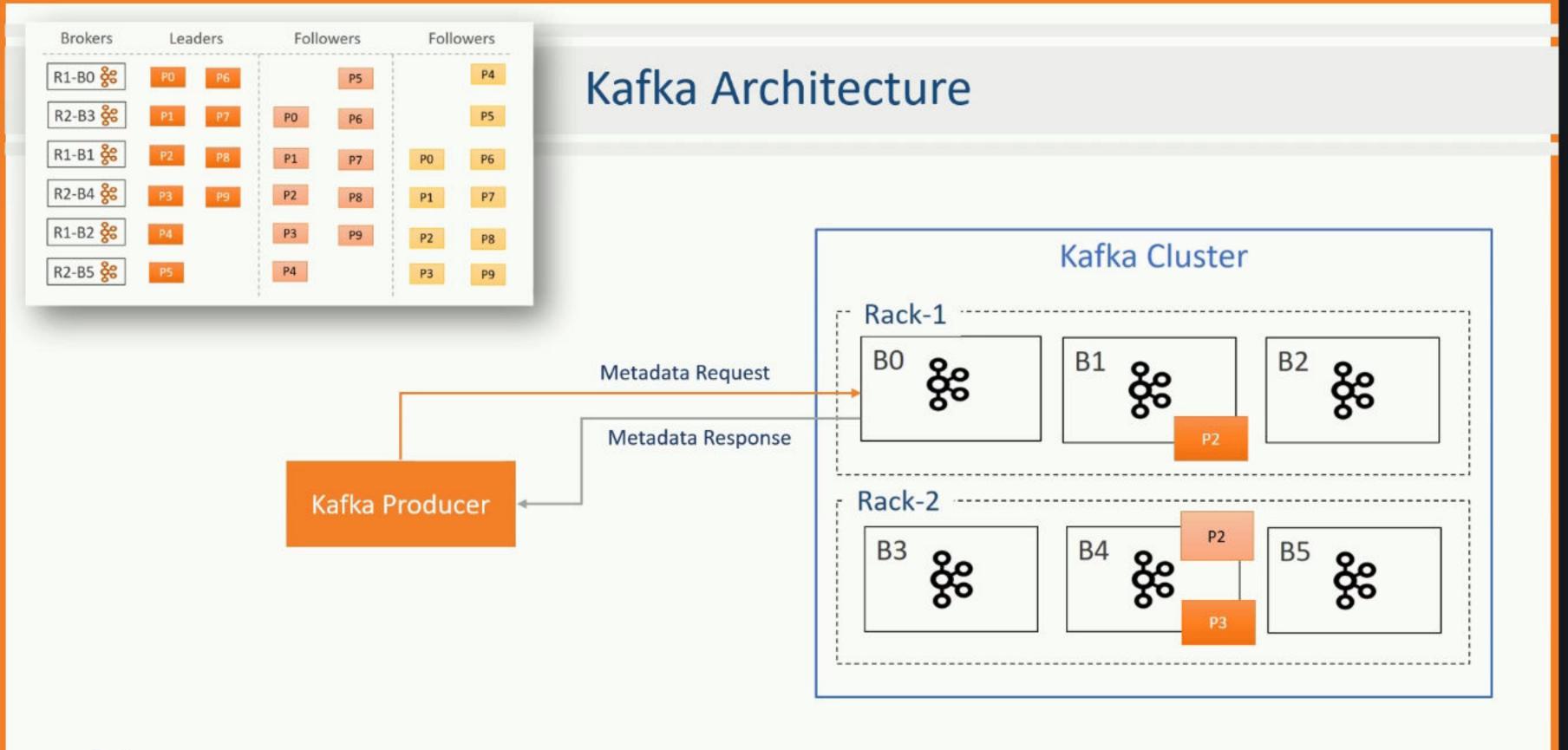
- 1. Leader Activity
- 2. Follower Activity

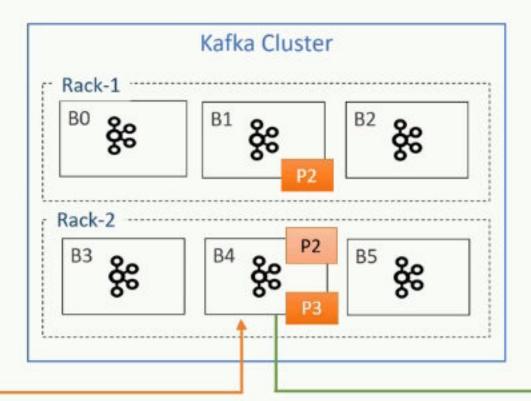




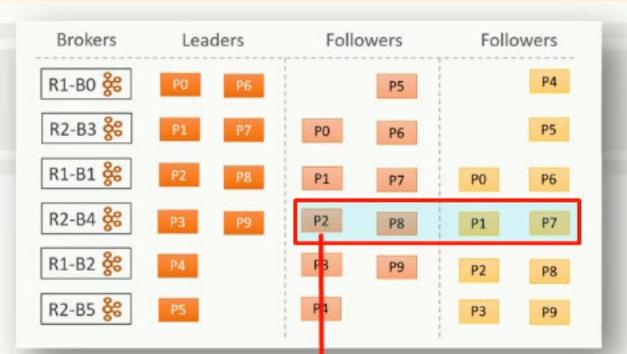
Followerkers Followers Followers Leaders P4 R1-B0 🔆 P5 R2-B3 🔆 P5 P6 P6 P8 R1-B2 🞇 P9 R2-B5 🞇 P4 P9

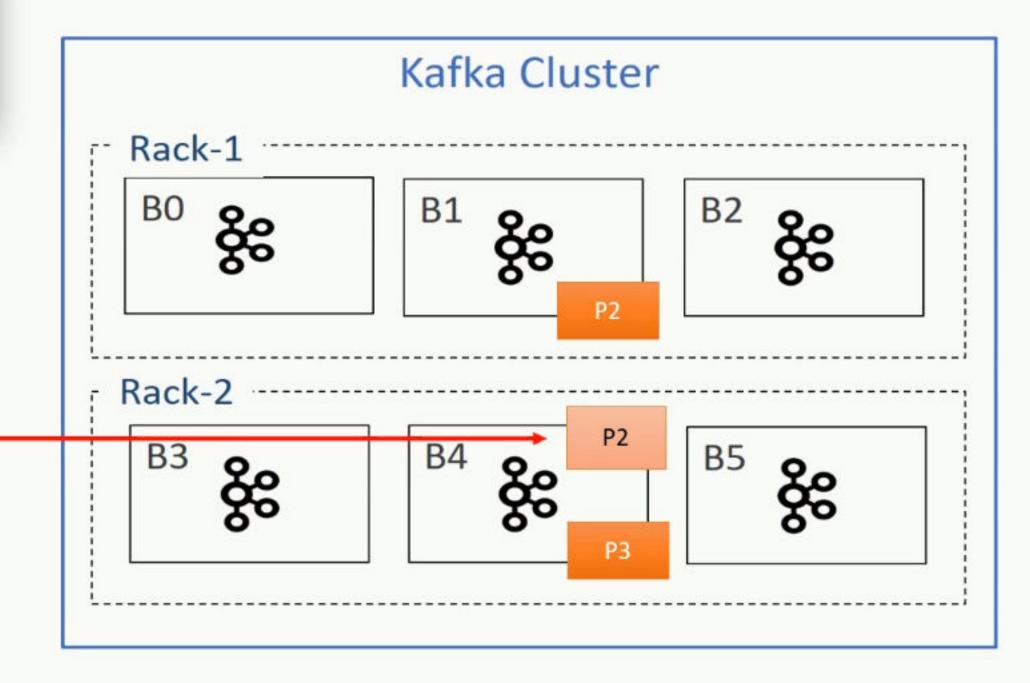
Kafka Architecture

Kafka Producer



Kafka Consumer





 Brokers
 Leaders
 Followers
 Followers

 R1-B0 %
 P0
 P6
 P5
 P4

 R2-B3 %
 P1
 P7
 P0
 P6
 P5

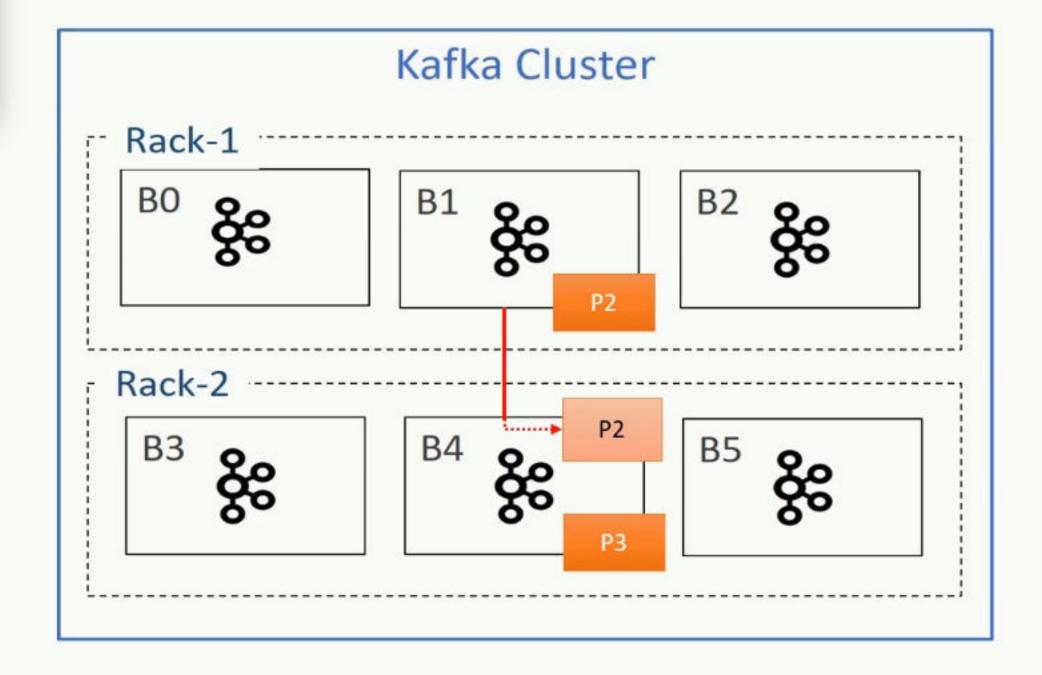
 R1-B1 %
 P2
 P8
 P1
 P7
 P0
 P6

 R2-B4 %
 P3
 P9
 P2
 P8
 P1
 P7

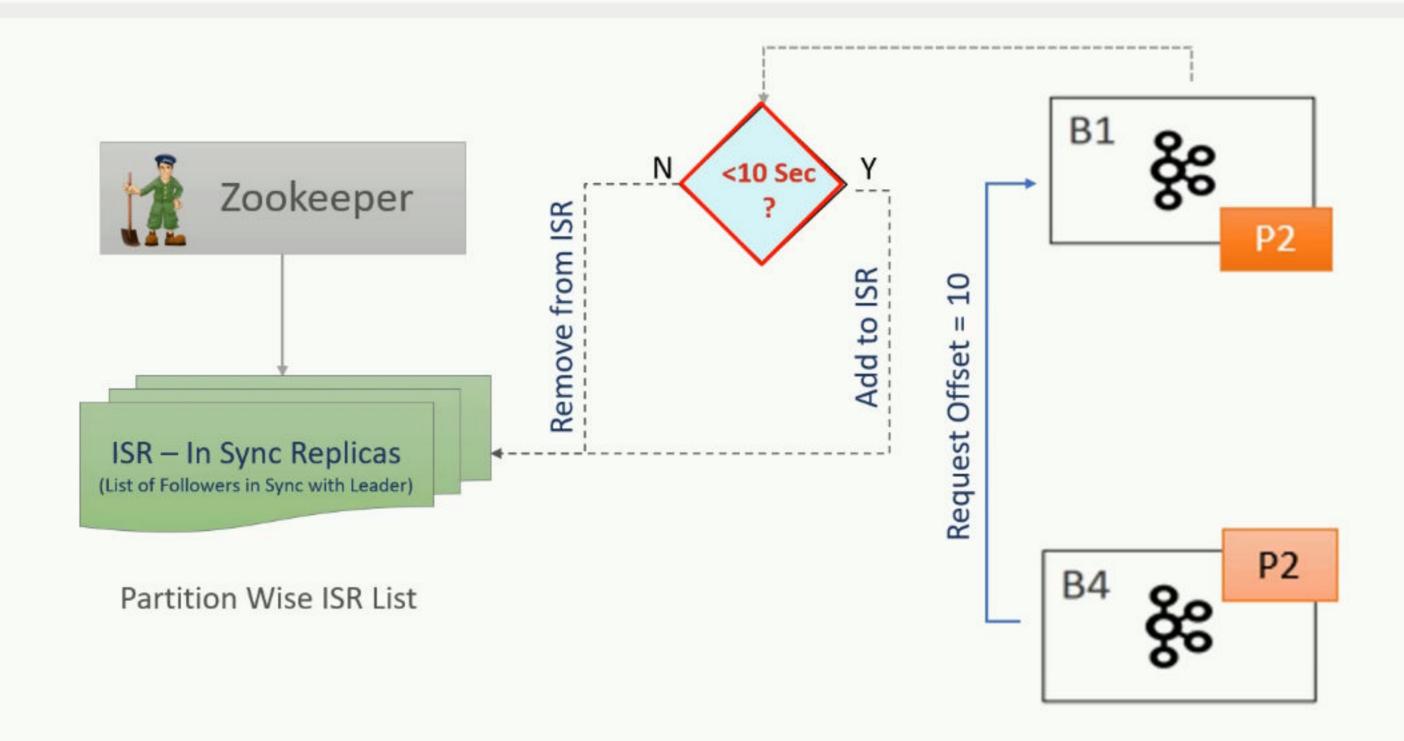
 R1-B2 %
 P4
 P3
 P9
 P2
 P8

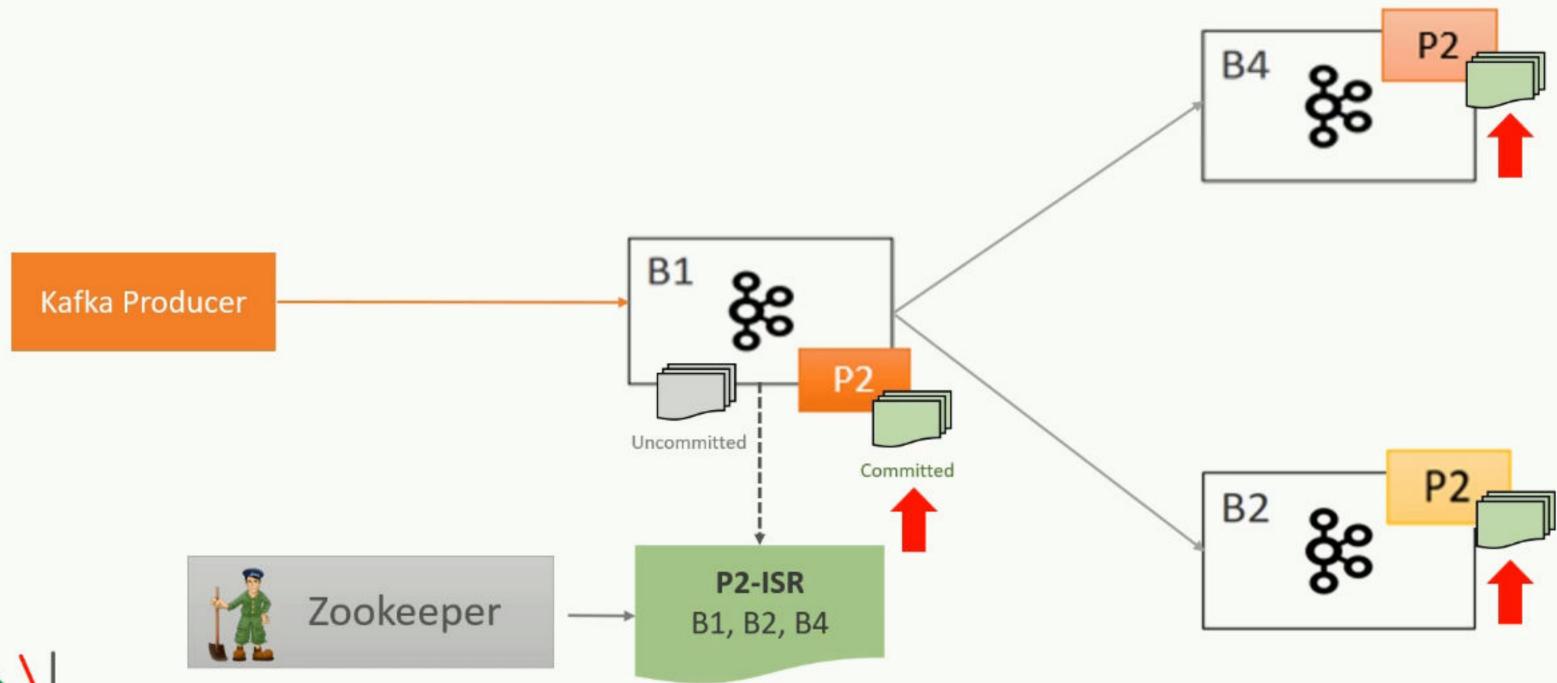
 R2-B5 %
 P5
 P4
 P3
 P9

- 1. Network Congestion
- 2. Follower Broker Crash/Restart.

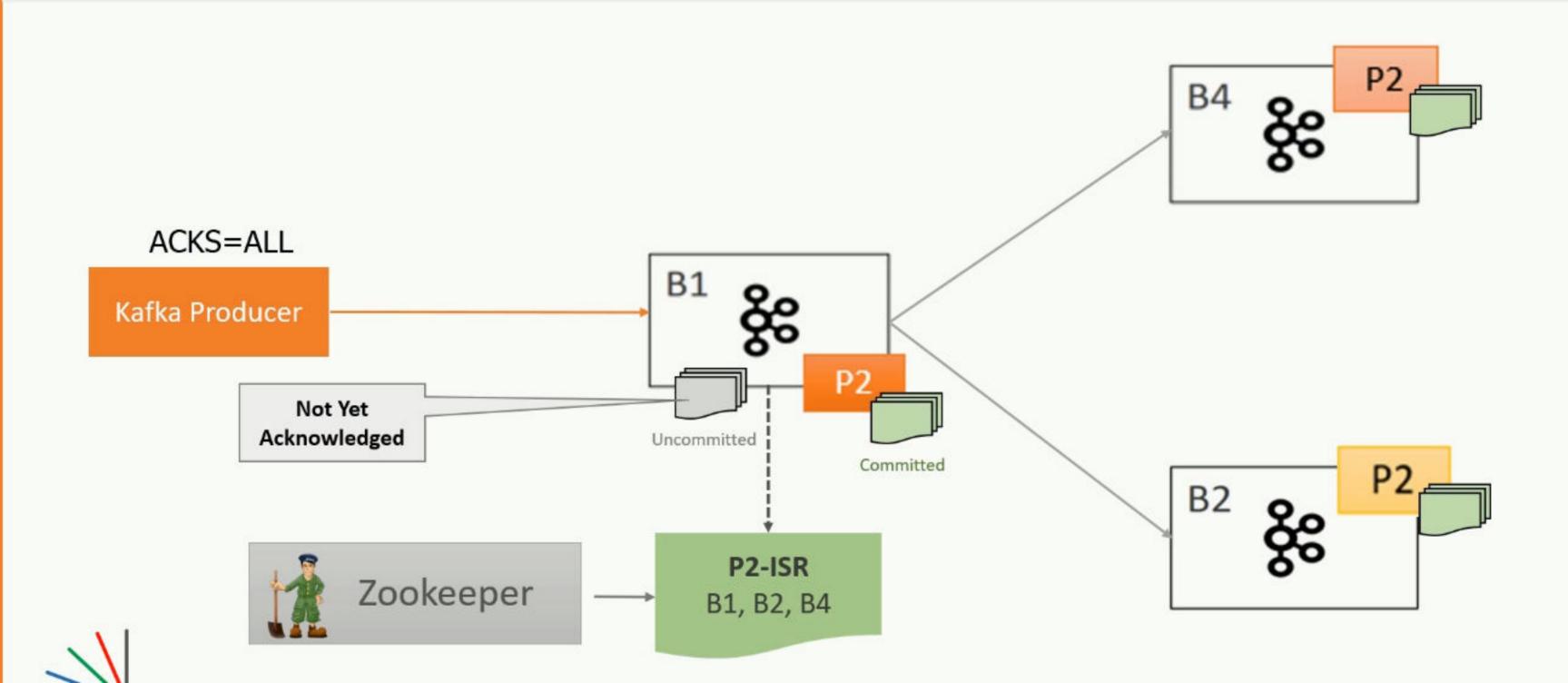


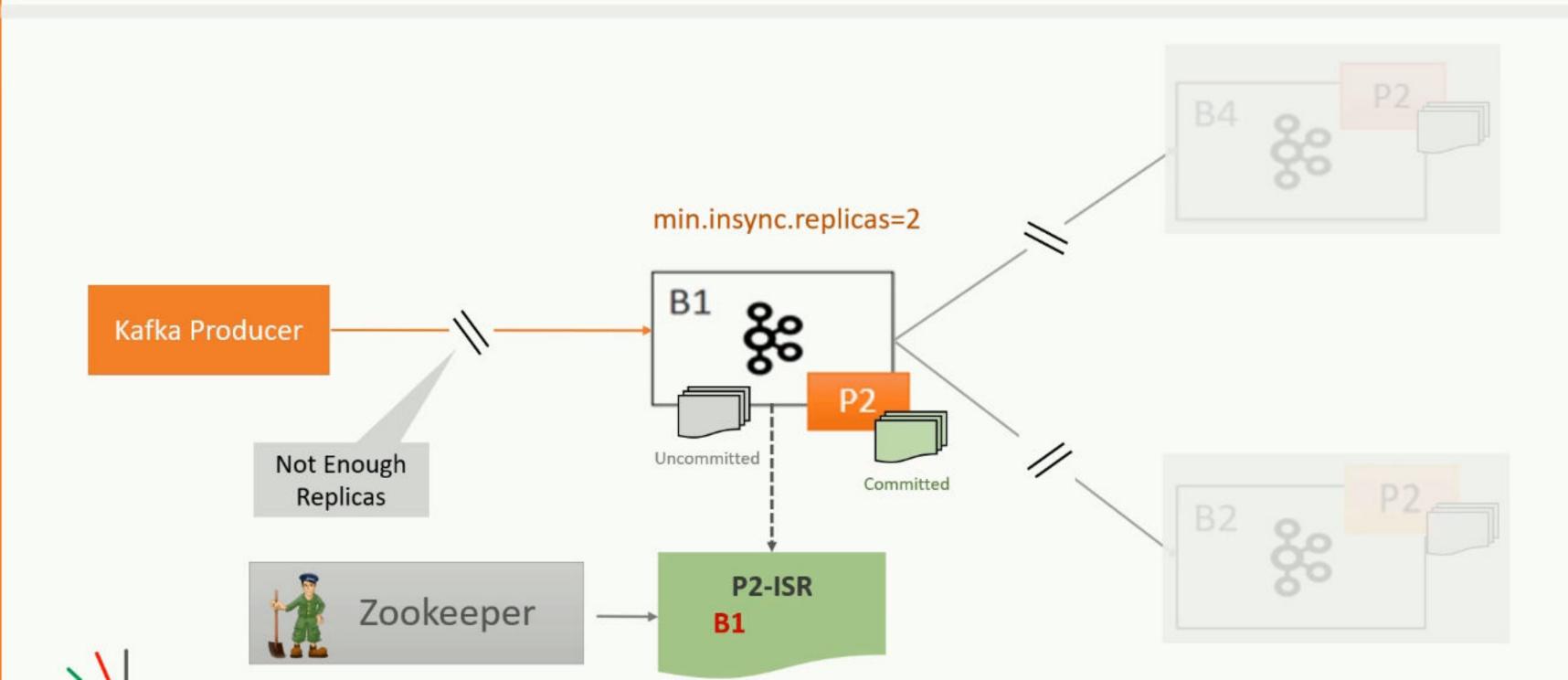


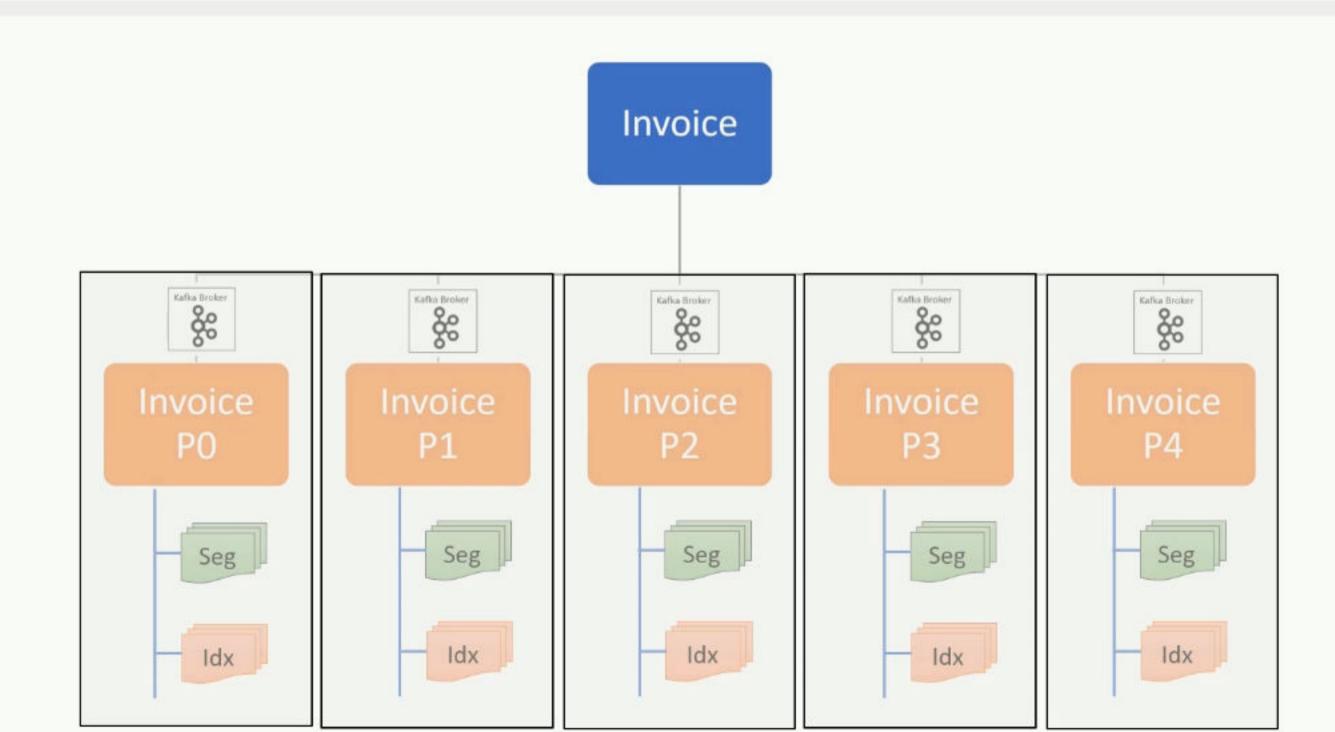


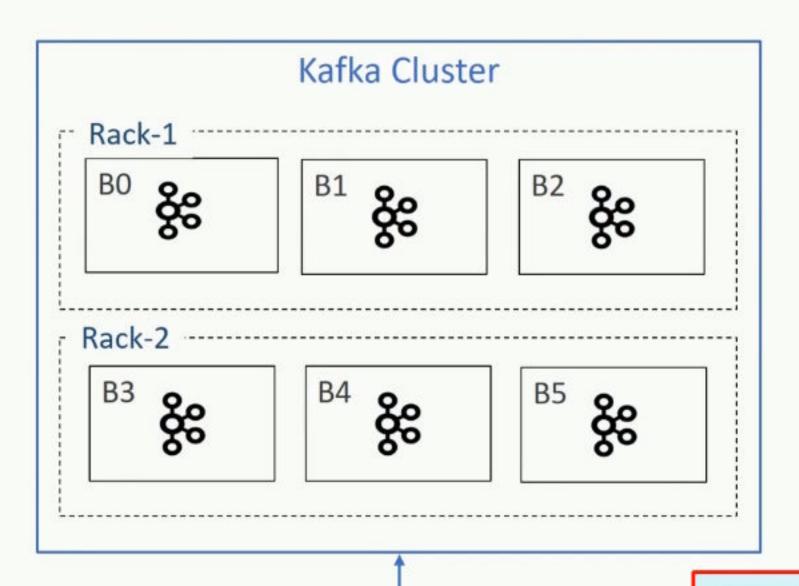












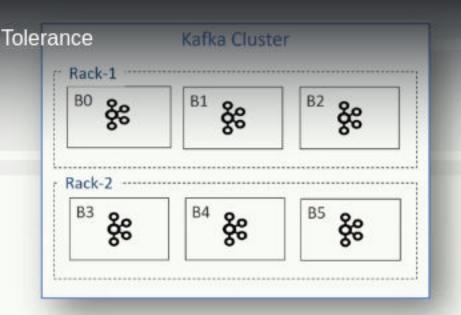
Topic - Invoice

- 1. Partitions -> 10
- 2. Replication Factor -> 3

Total Replicas = 30

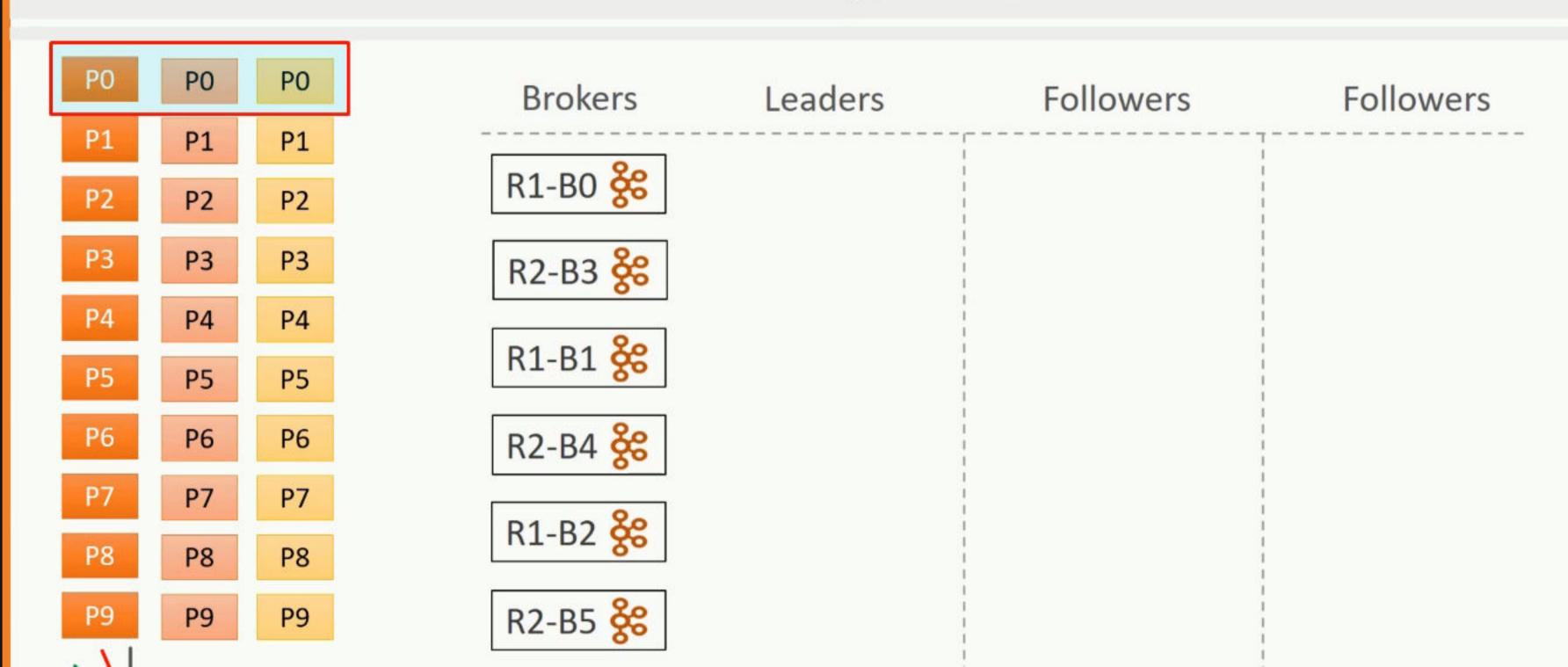
- 1. Even Distribution
- 2. Fault Tolerance.

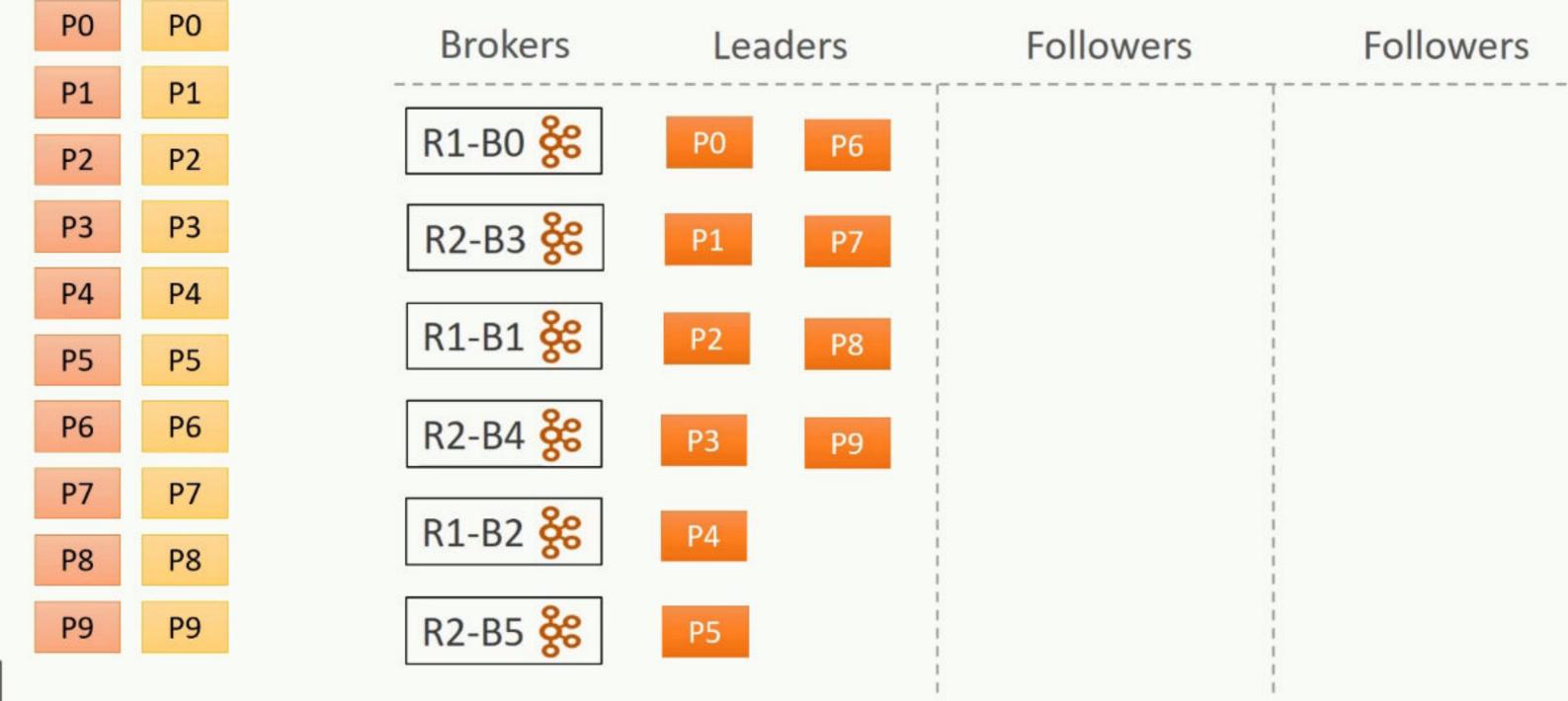




- 1. Ordered List of Brokers
- → 2. Leader and Followers Assignment









Brokers	Leaders		Followers		Followers	
R1-B0 %	РО	P6	1 1 1 1	P5		P4
R2-B3 🞇	P1	P7	PO	P6		P5
R1-B1 🞇	P2	P8	P1	P7	PO	P6
R2-B4 %	Р3	P9	P2	P8	P1	P7
R1-B2 🞇	P4		P3	P9	P2	P8
R2-B5 %	P5		P4		Р3	P9

