

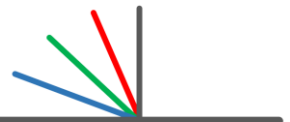
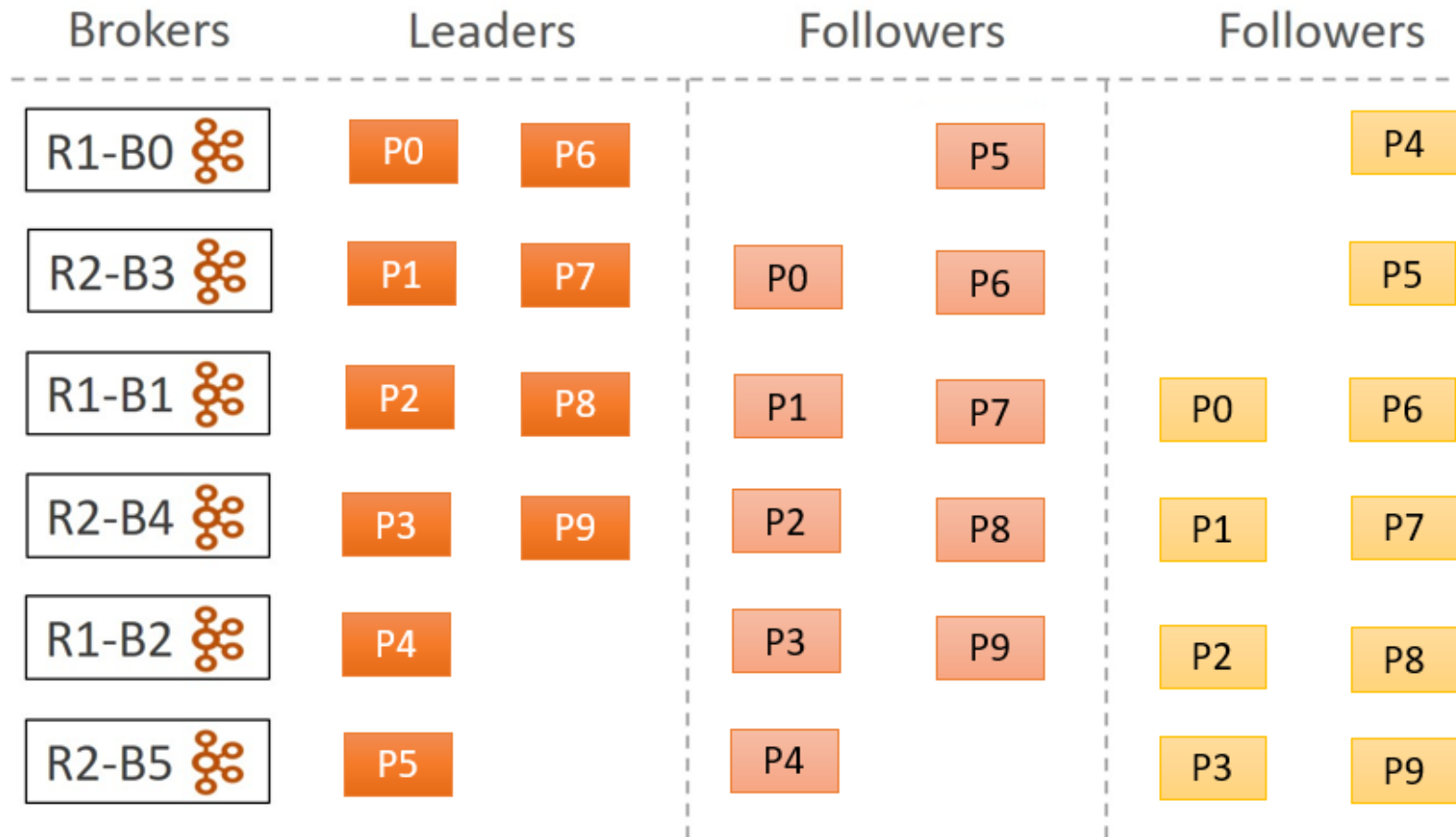


# Kafka Work Distribution Architecture – Part 2

# Kafka Architecture

1. Leader Partition
2. Follower Partition

# Kafka Architecture



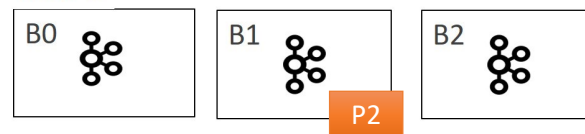
# Kafka Architecture

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

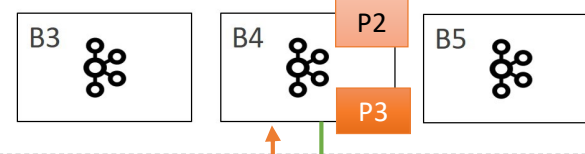
Kafka Producer

Kafka Cluster

Rack-1



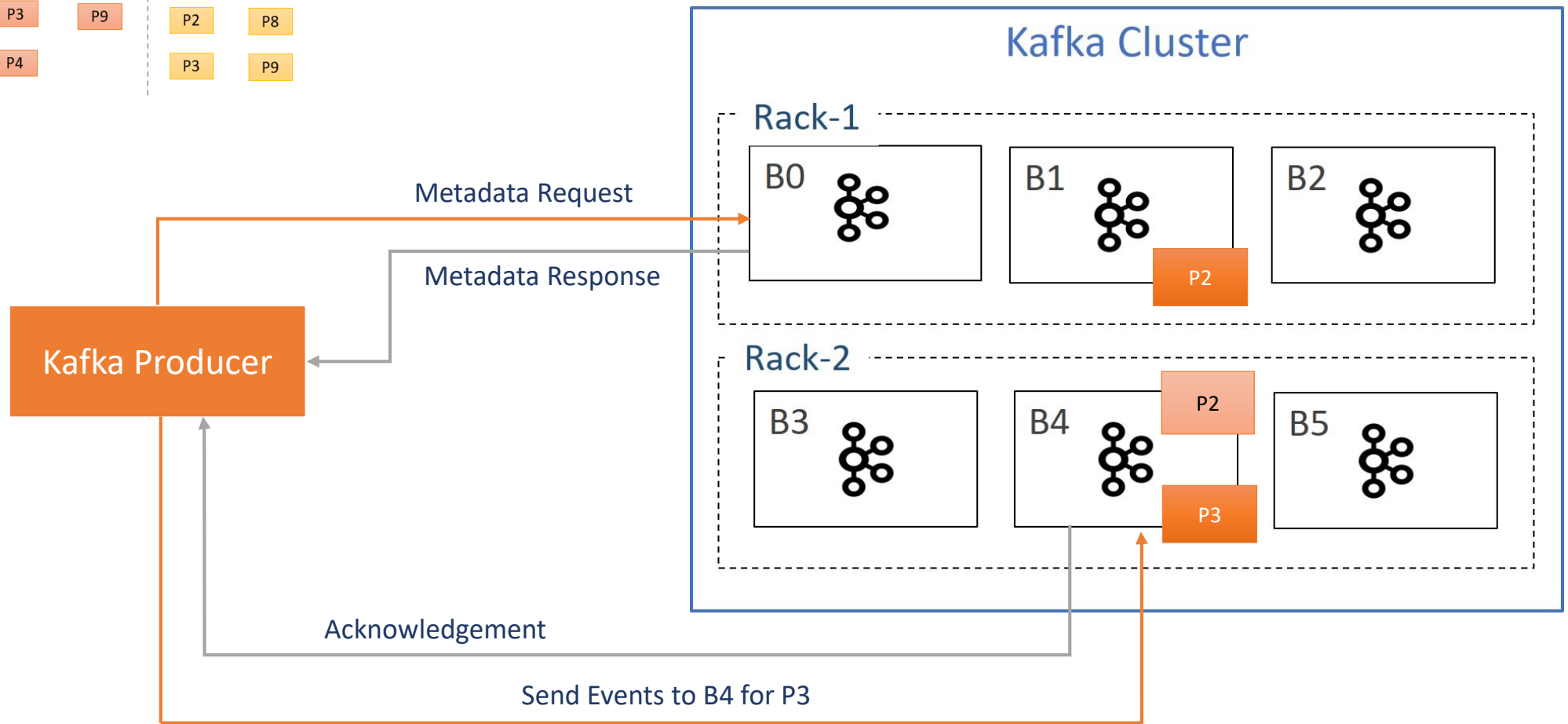
Rack-2









Kafka Consumer

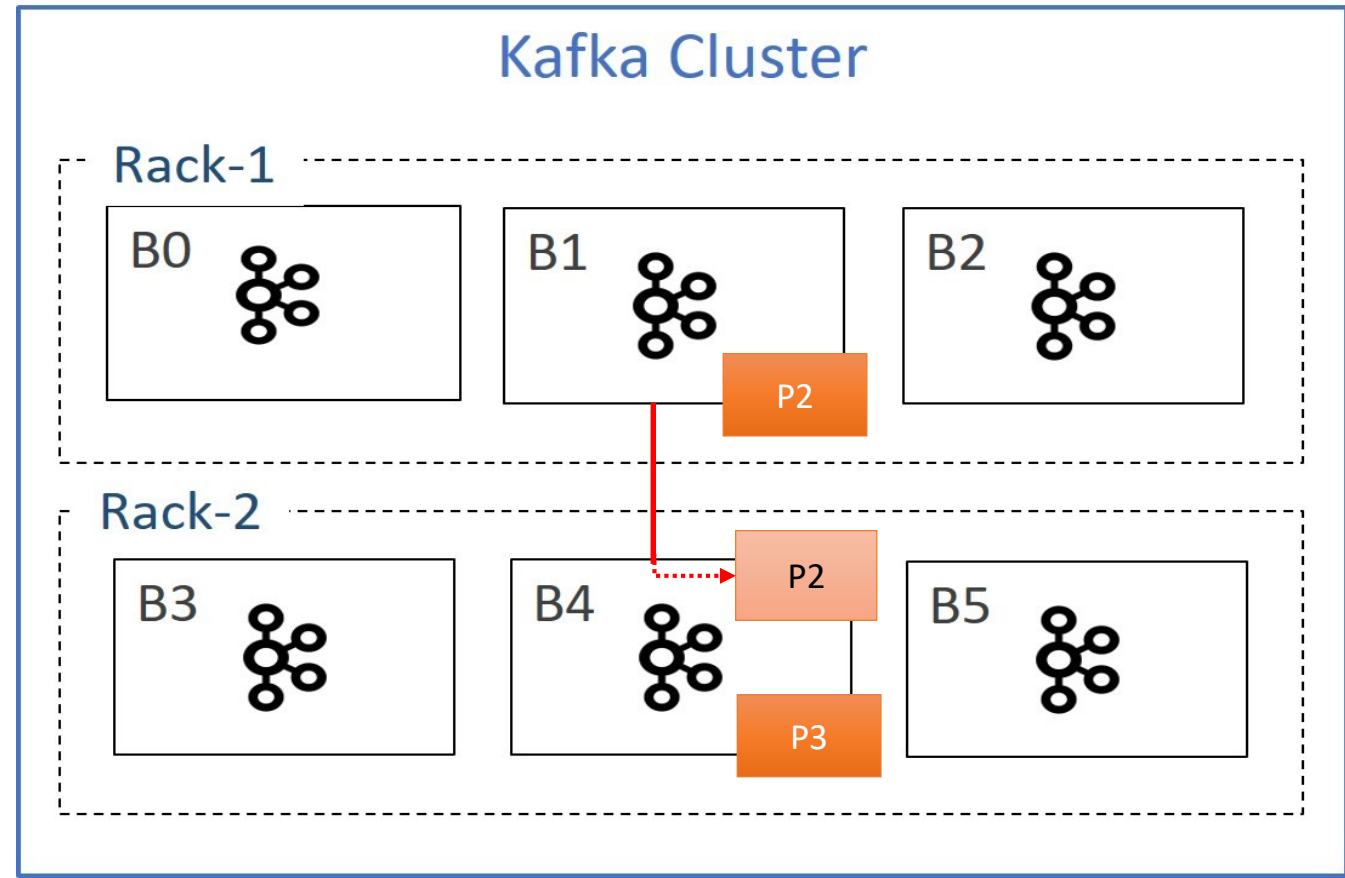
# Kafka Architecture

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



# Kafka Architecture

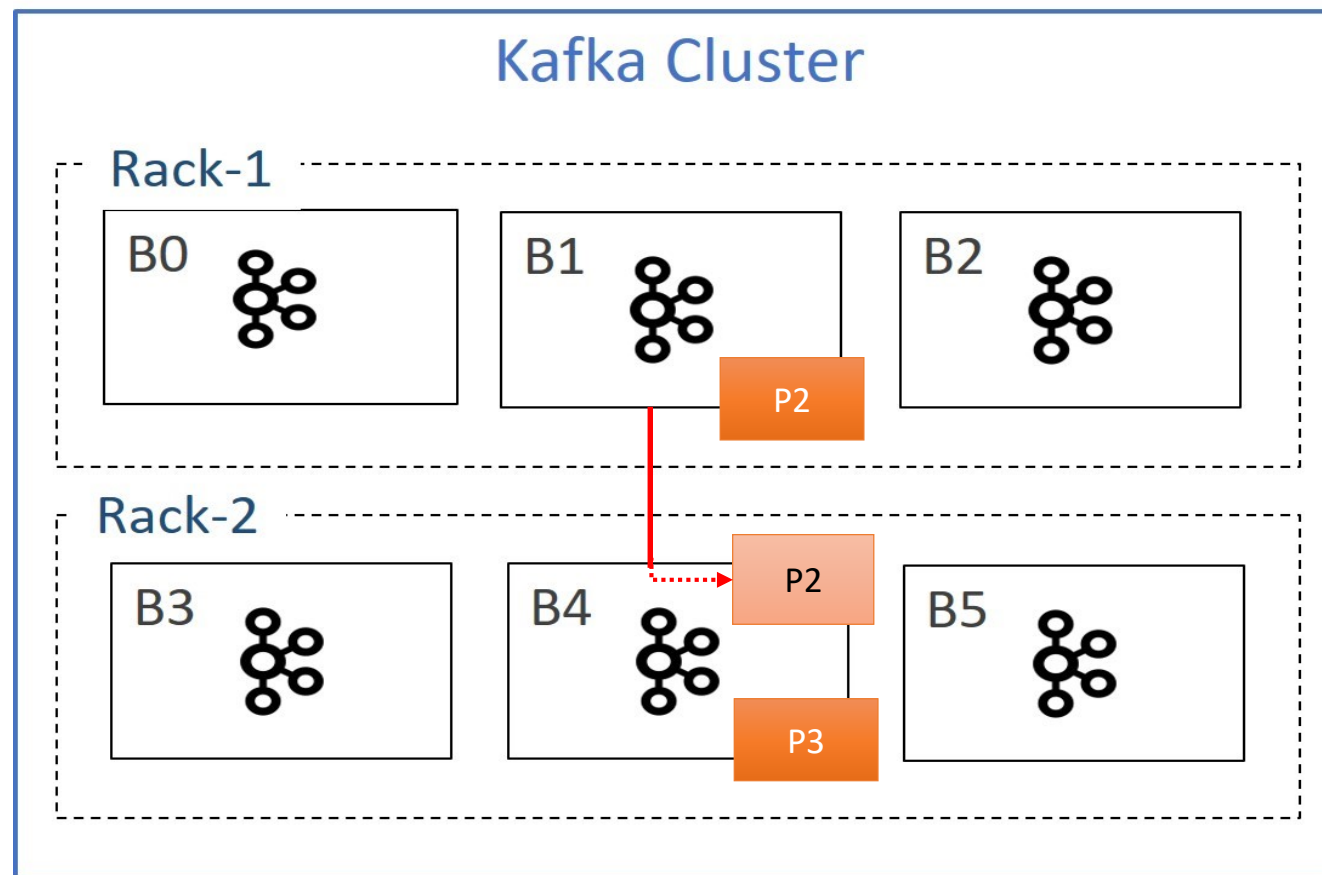
Brokers	Leaders		Followers		Followers	
R1-B0 	P0	P6		P5		P4
R2-B3 	P1	P7	P0	P6		P5
R1-B1 	P2	P8	P1	P7	P0	P6
R2-B4 	P3	P9	P2	P8	P1	P7
R1-B2 	P4		P3	P9	P2	P8
R2-B5 	P5		P4		P3	P9



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

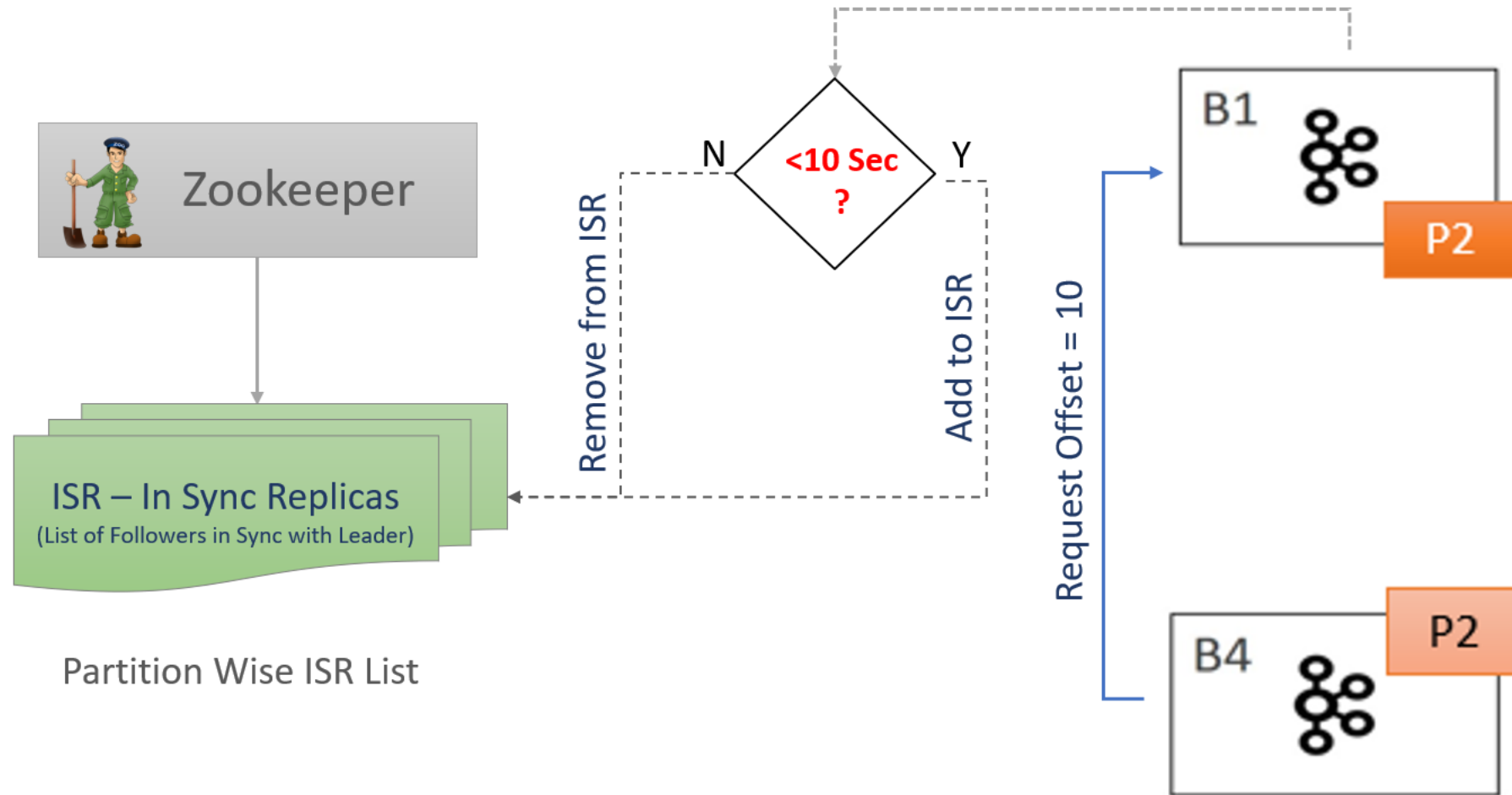
# Kafka Architecture

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





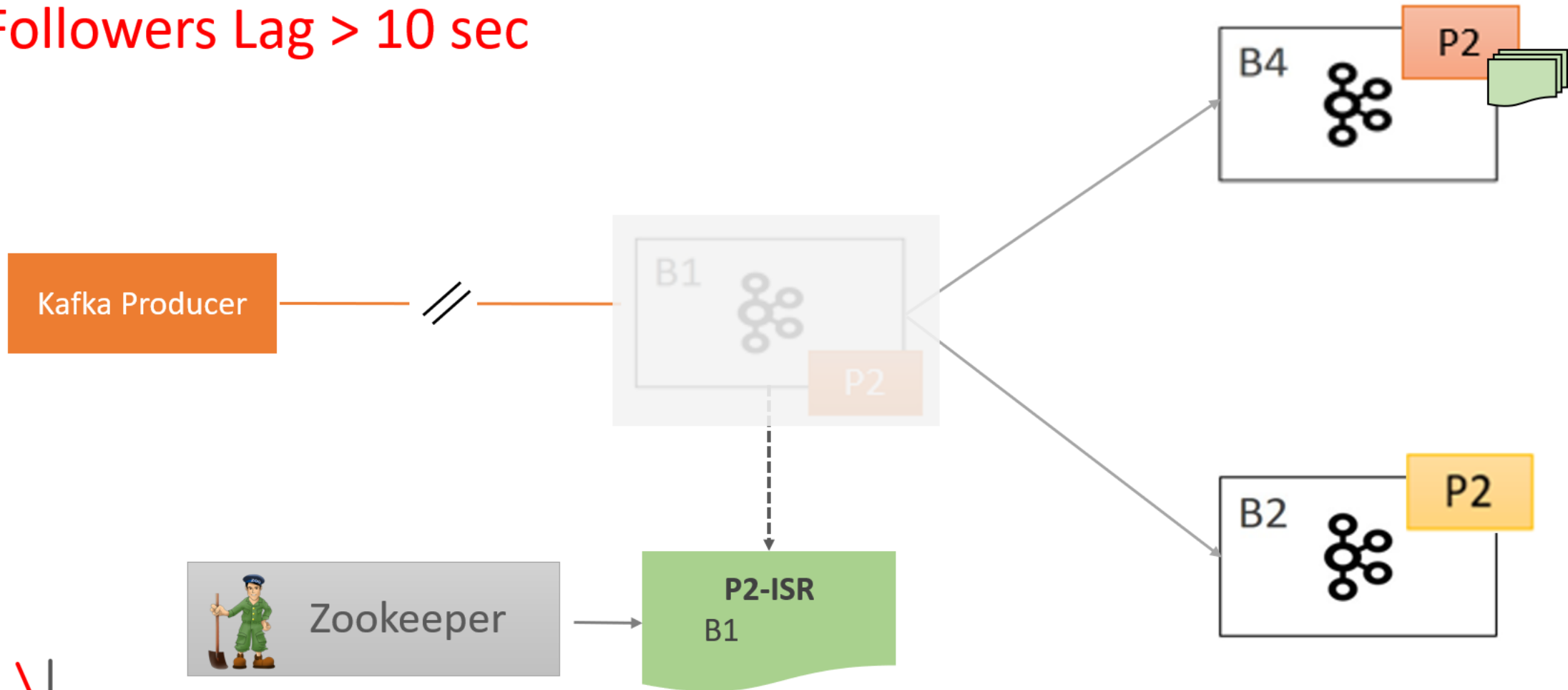
# Kafka Architecture





# Kafka Architecture

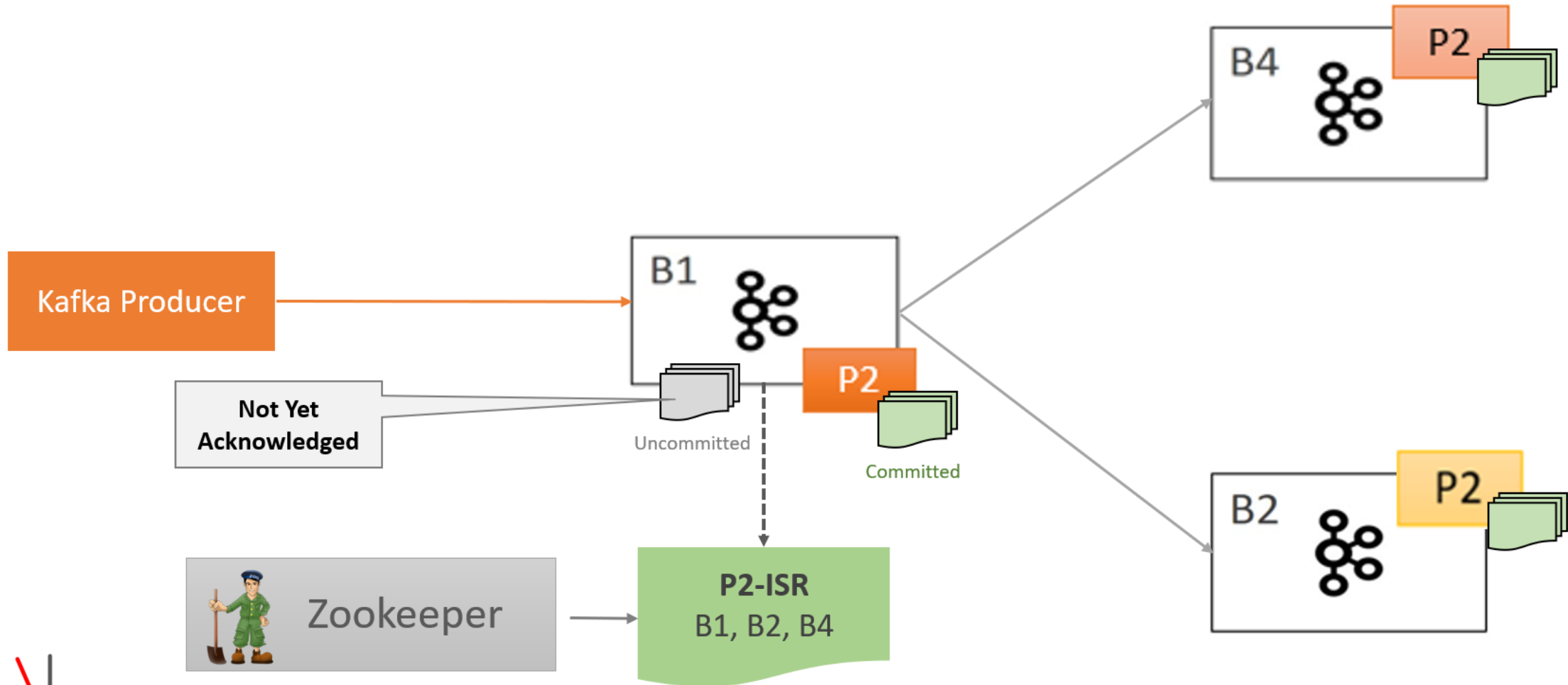
Followers Lag > 10 sec



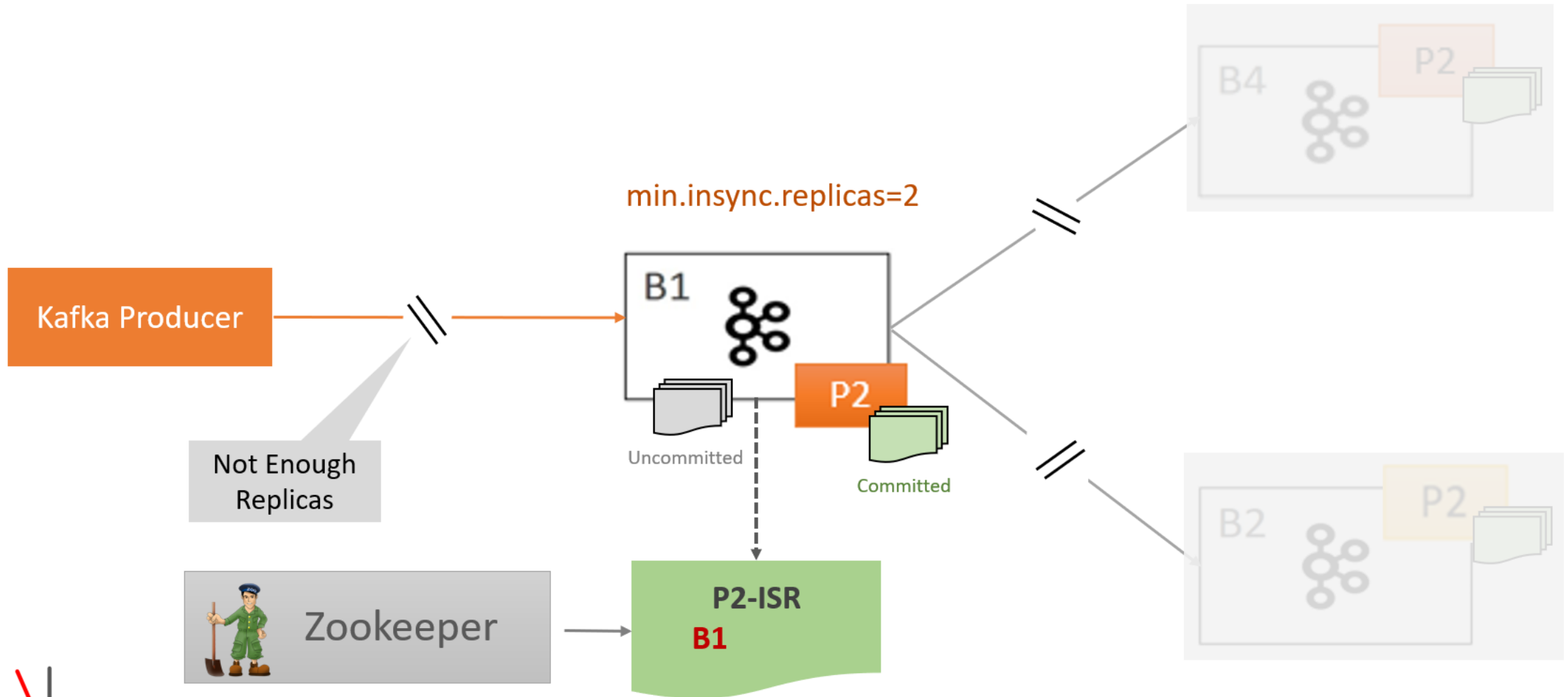
# Kafka Architecture

1. Committed Vs Uncommitted
2. Minimum In-Sync Replicas

# Kafka Architecture

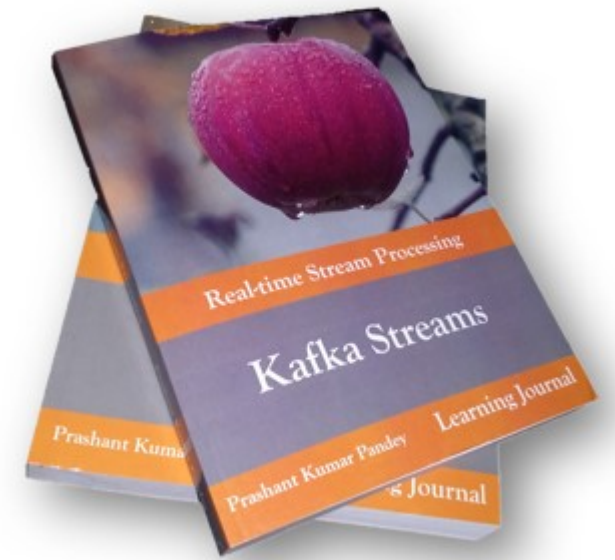


# Kafka Architecture





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