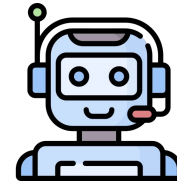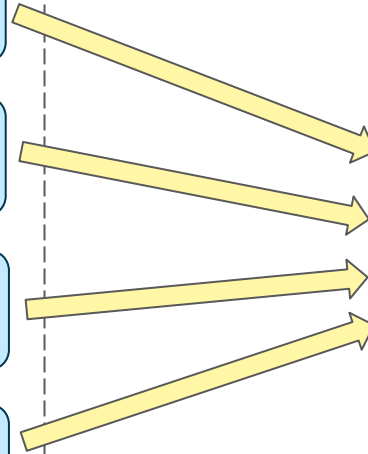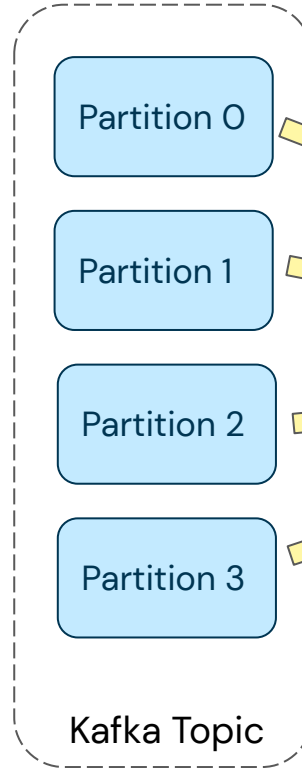# Consumer Groups

Producer

Partition 0

Partition 1

Partition 2

Partition 3

Kafka Topic
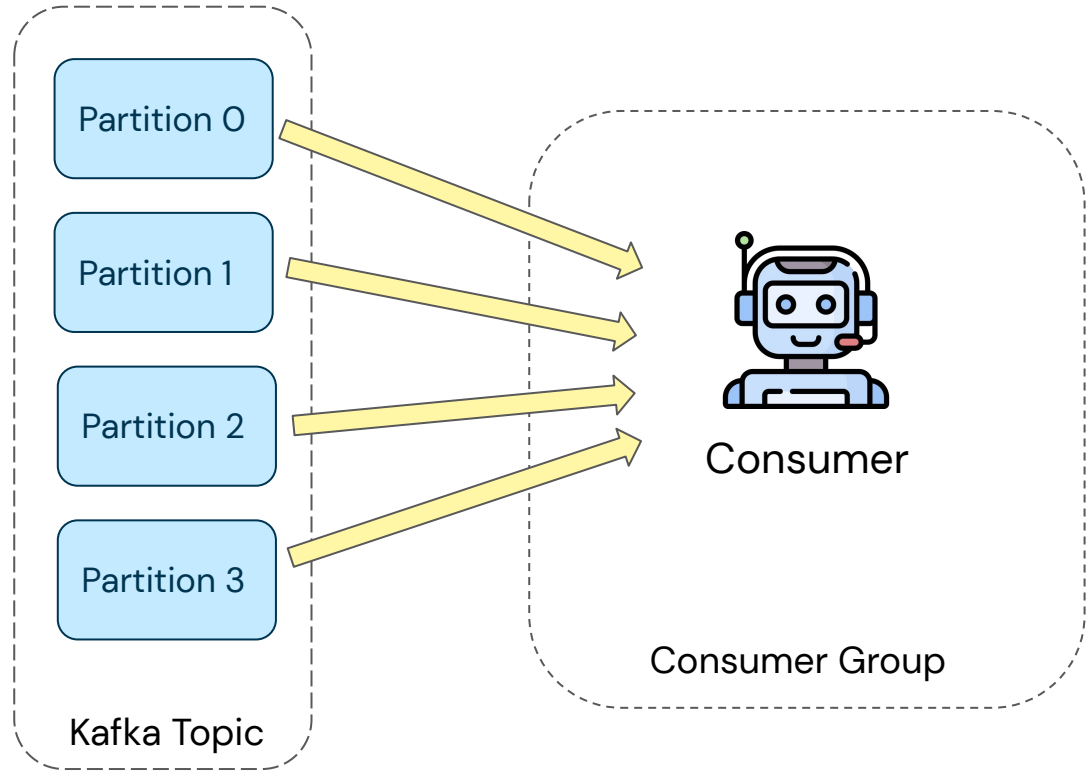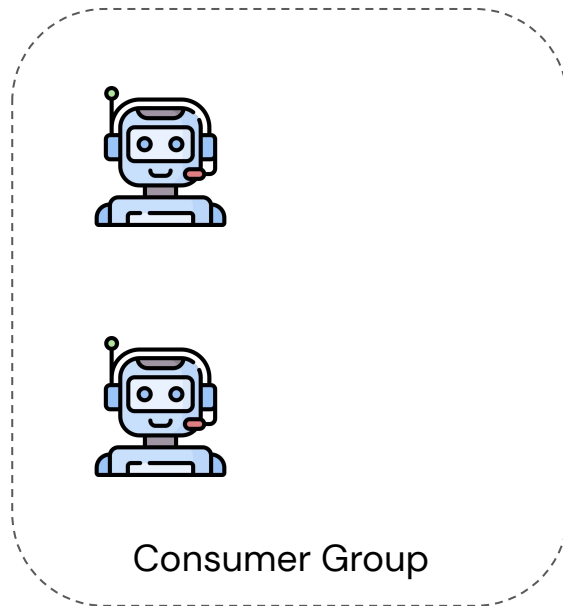
Consumer

Consumer Groups

Consumer Groups

Partition 0

Partition 1

Partition 2

Partition 3

Kafka Topic

Consumer Group

Consumer Groups

Partition 0

Partition 1

Partition 2

Partition 3

Kafka Topic

Consumer Group

Consumer Groups

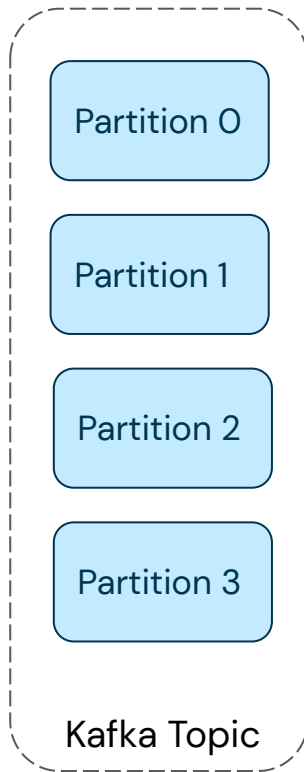Partition 0

Partition 1

Partition 2

Partition 3

Kafka Topic

Consumer Group

Consumer Groups

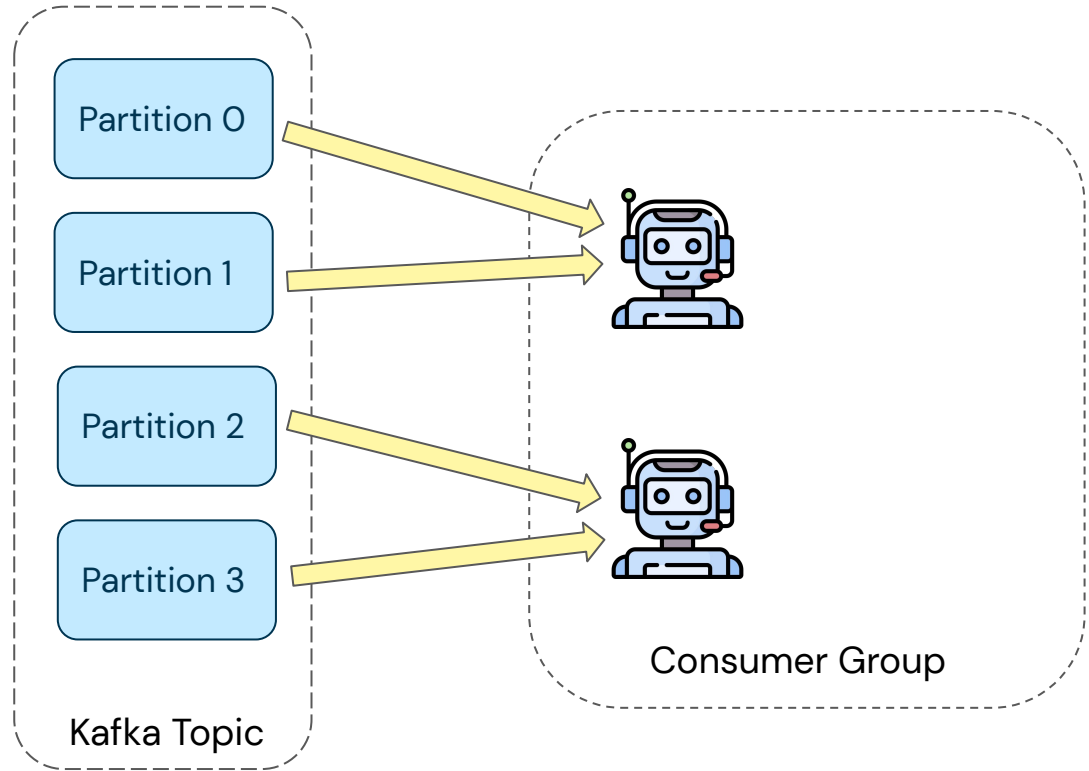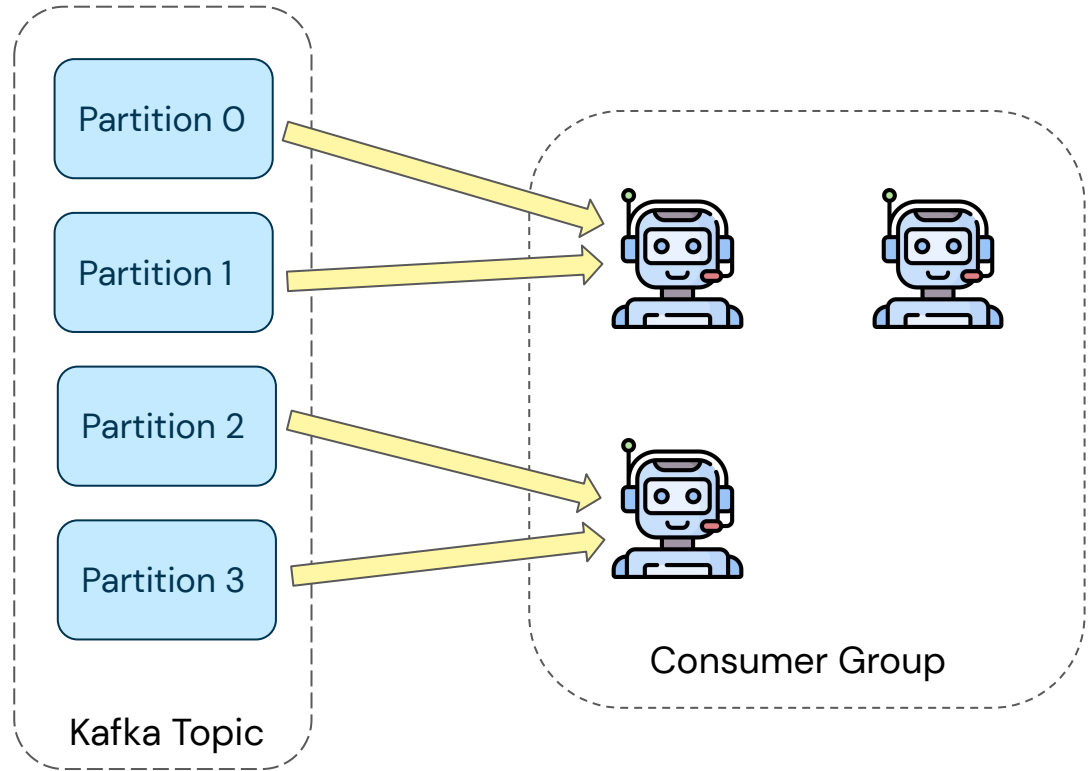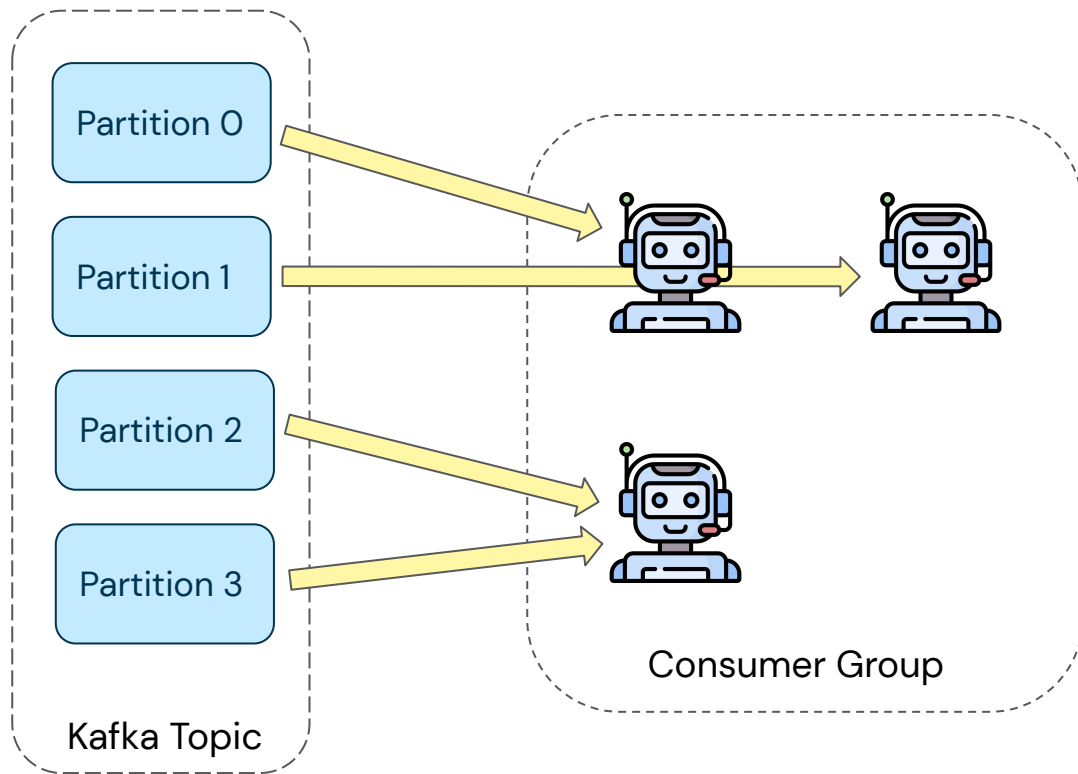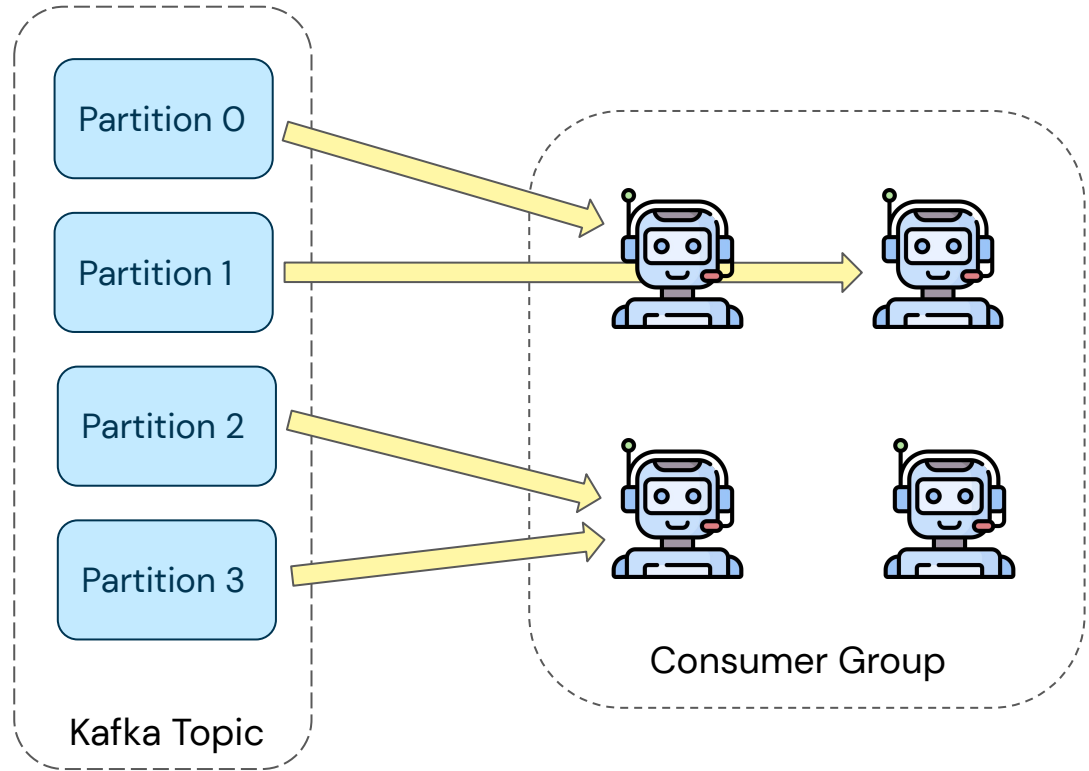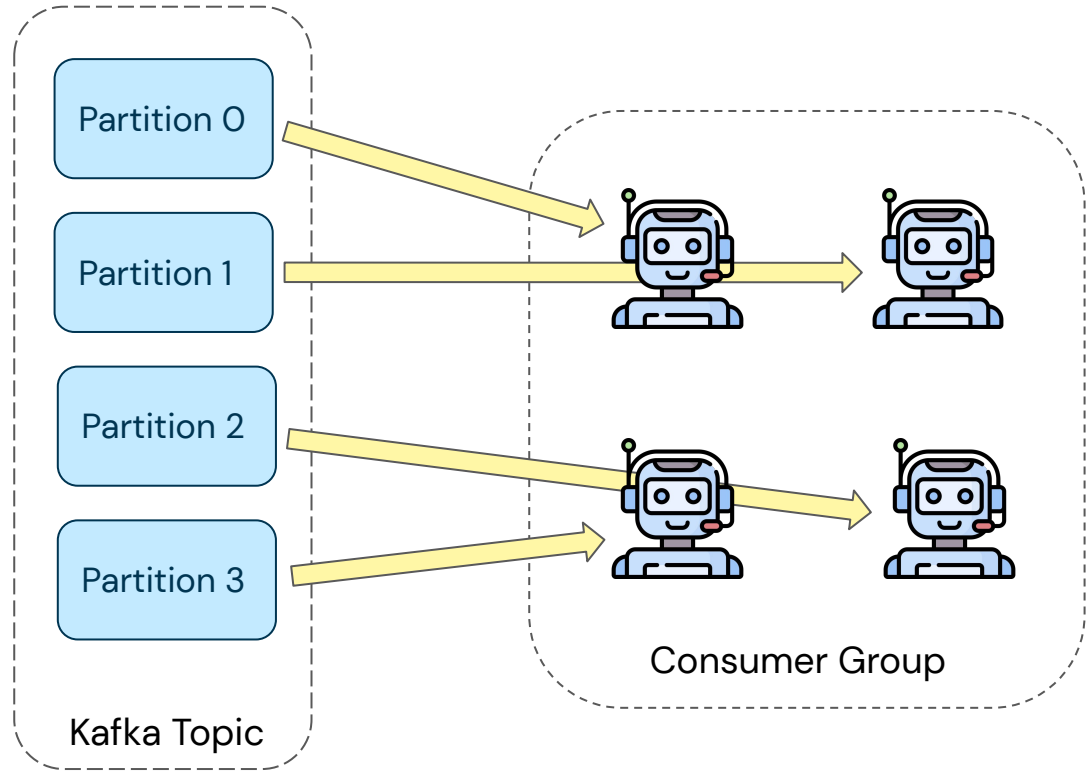# Consumer Groups

Consumer Groups
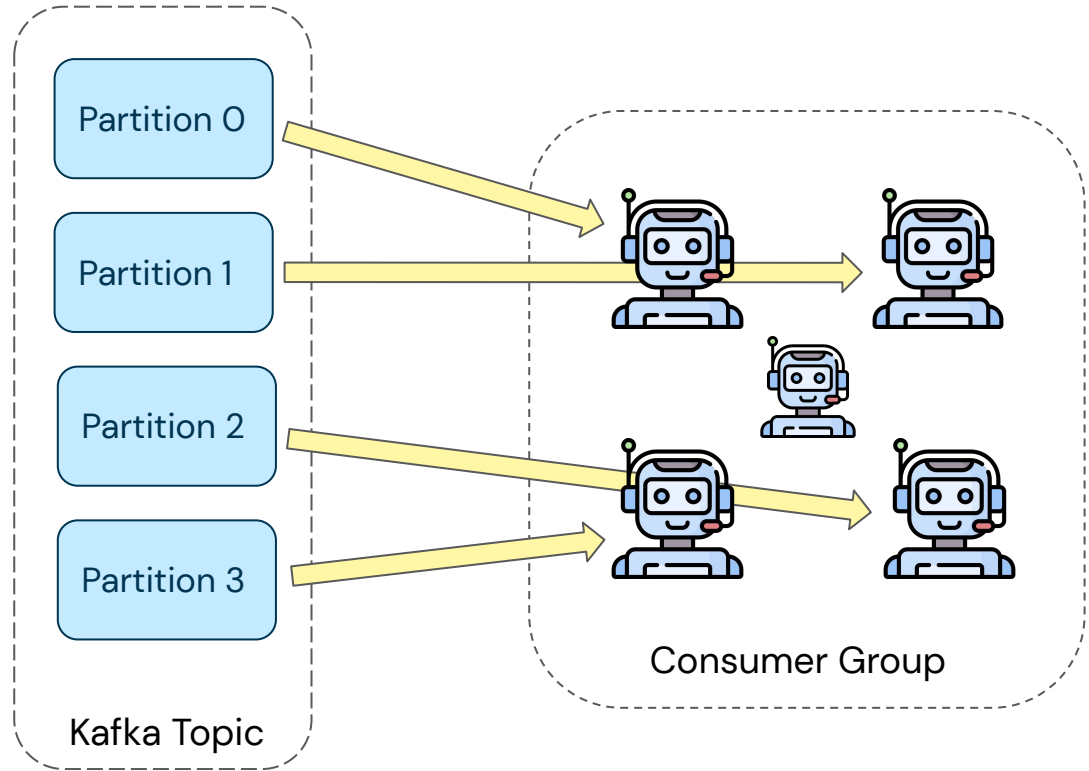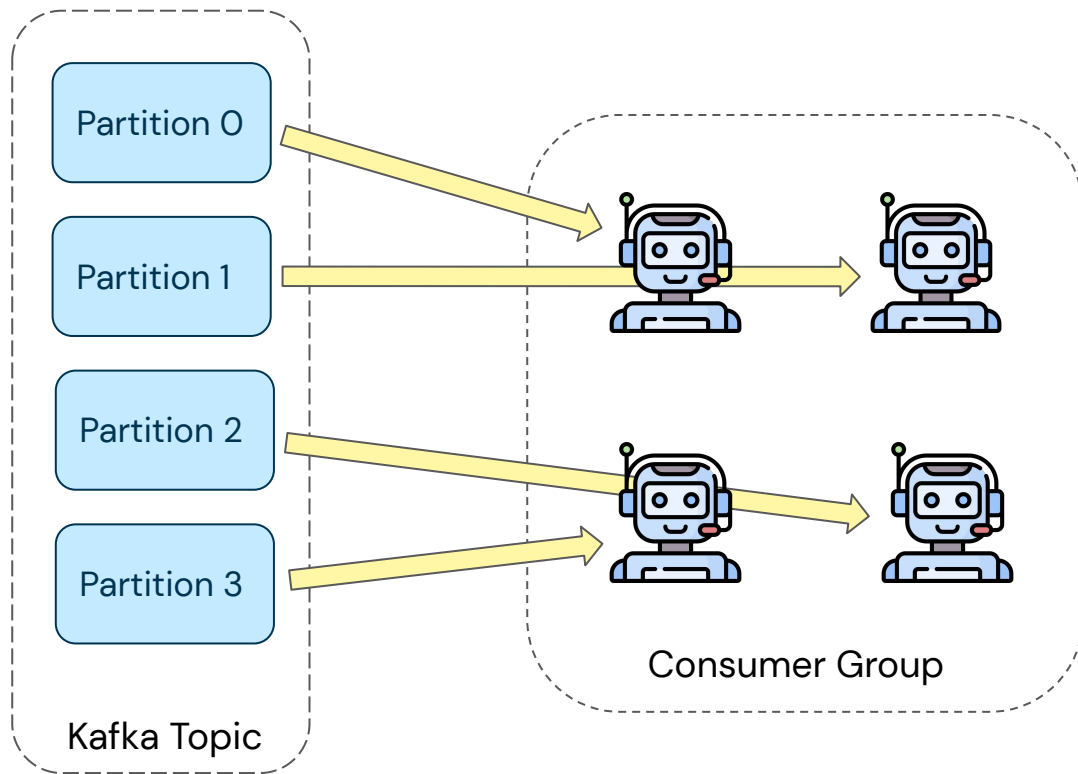
Consumer Groups

Consumer Groups

 # Partitions

Partition 0

Partition 1

Partition 2

Partition 3

Kafka Topic

Consumer Group

Consumer Groups

 # Partitions

Consumers

Partition 0

Partition 1

Partition 2

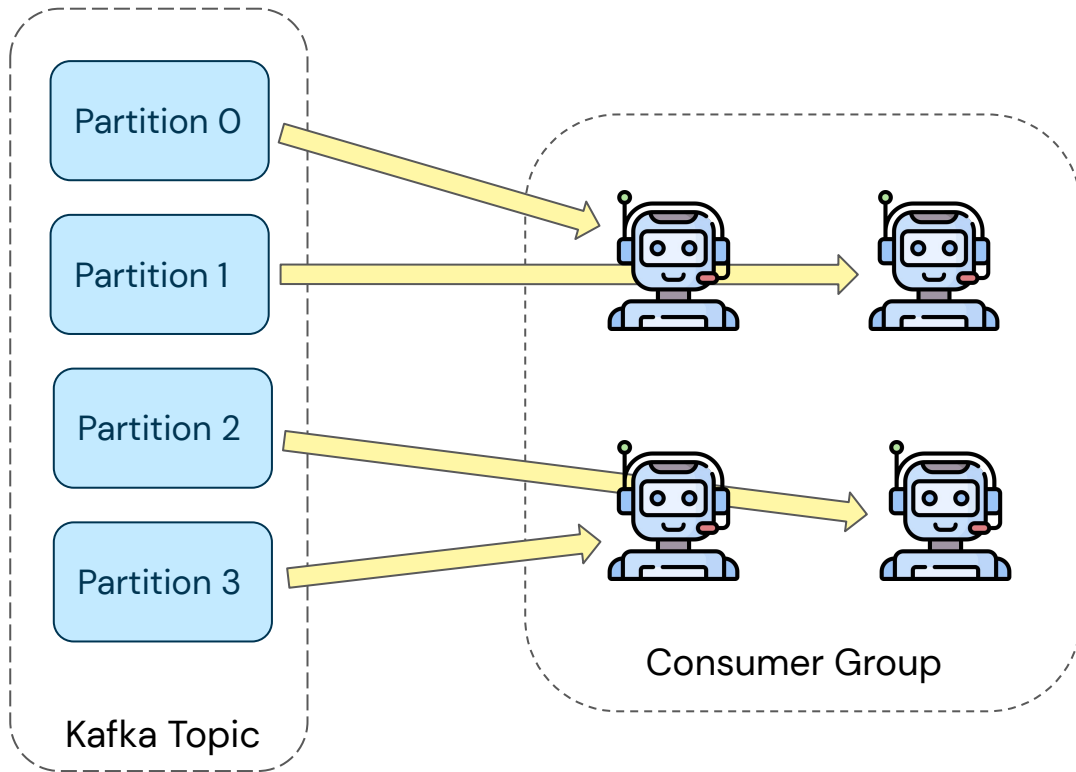Partition 3

Kafka Topic

Consumer Group
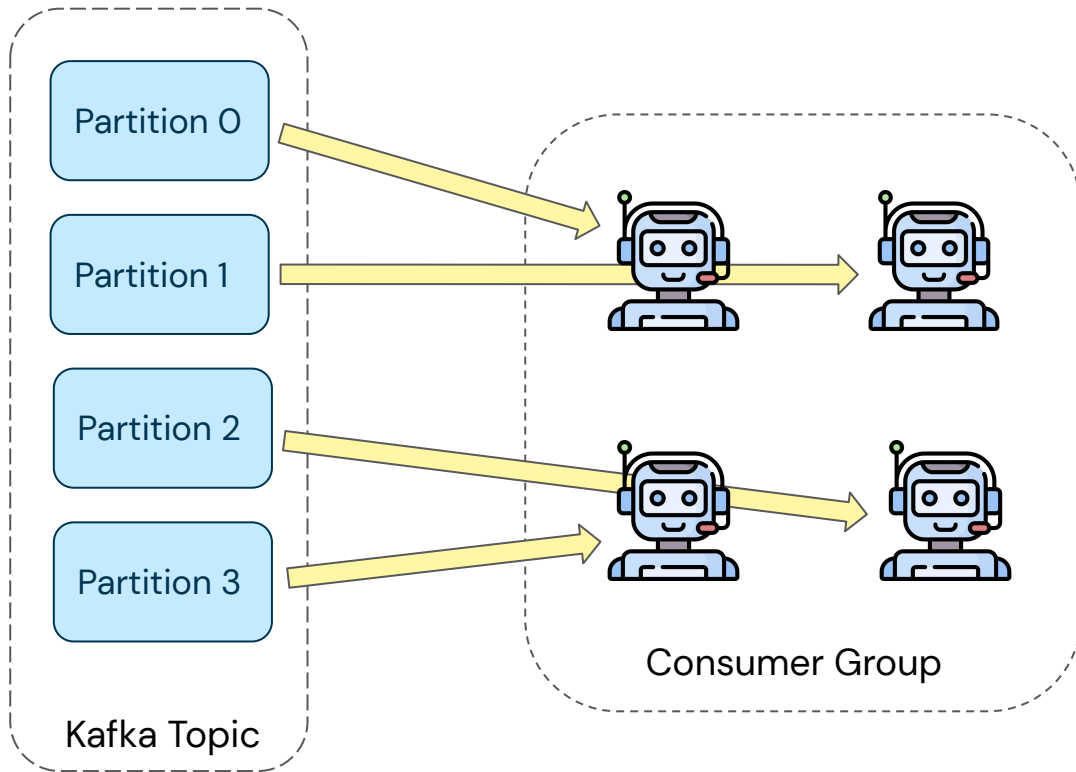
Consumer Groups

Partitions

Consumers = All Producers Performance
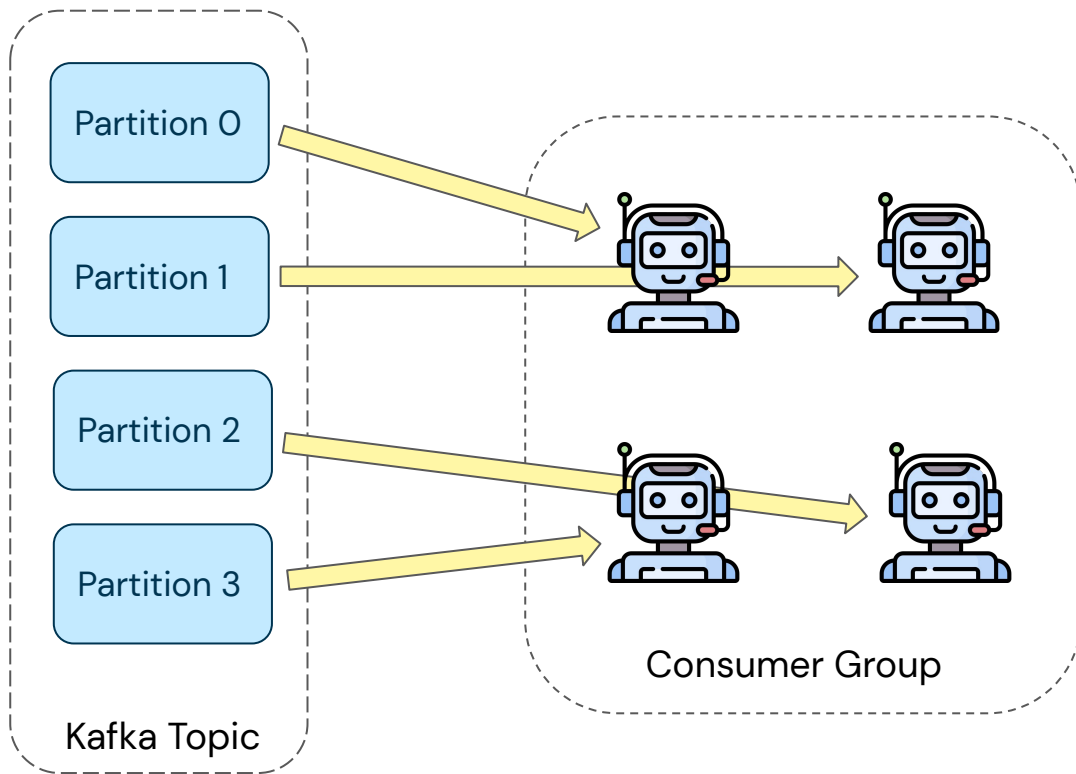
Consumer Groups

 # Partitions

$$\text{\# Consumers} = \frac{\text{All Producers Performance}}{\text{1 Consumer Performance}}$$

Partition 0

Partition 1

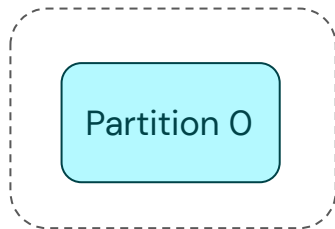Partition 2

Partition 3

Kafka Topic

Consumer Group

Consumer Groups

 # Partitions >= # Consumers

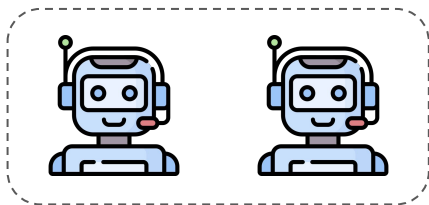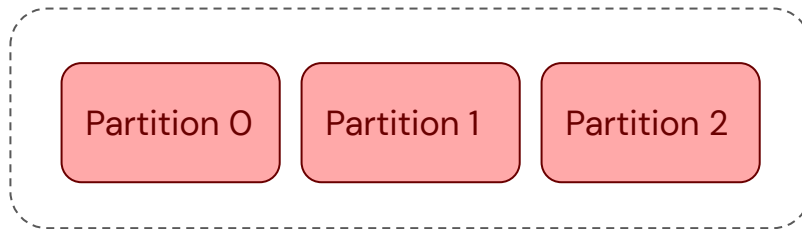$$\text{\# Consumers} = \frac{\text{All Producers Performance}}{\text{1 Consumer Performance}}$$

Partition 0

Partition 1
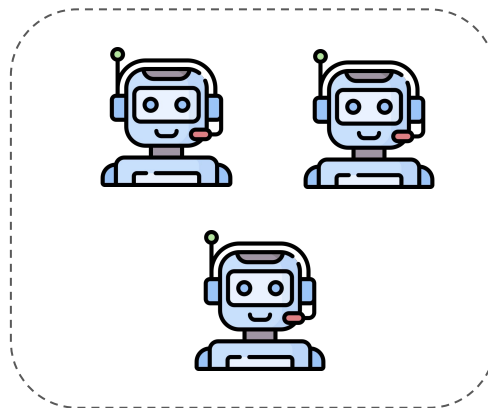
Partition 2

Partition 3

Kafka Topic

Consumer Group

Consumer Groups

Topic A

Partition 0

Topic B

Partition 0　Partition 1　Partition 2
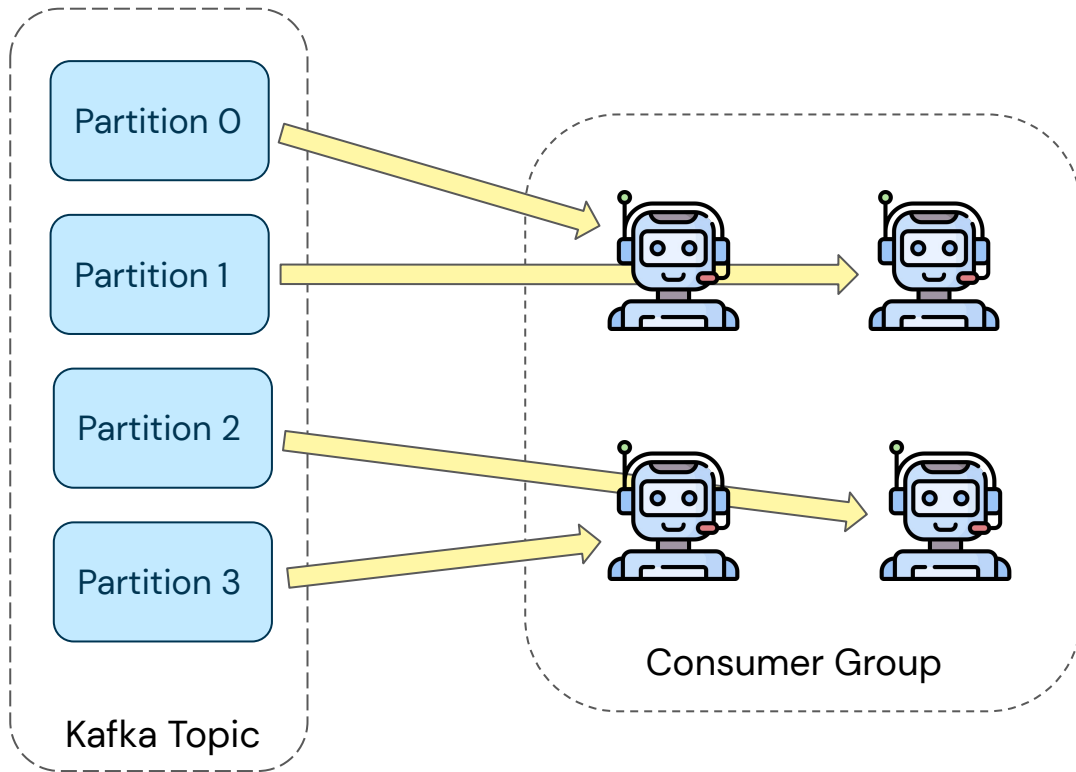
Group A

Group B

Consumer Groups

Topic A

Partition 0

Topic B

Partition 0

Partition 1

Partition 2

Topic A

Group A

Topic A

Topic B

Group B

Consumer Groups

Consumer Groups

Consumer Groups

Topic A

Partition 0

Topic B

Partition 0   Partition 1   Partition 2

Topic A

Group A

Topic A

Topic B

Group B

Consumer Groups

Consumer Groups
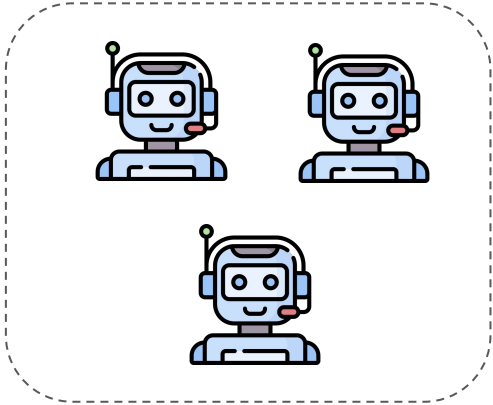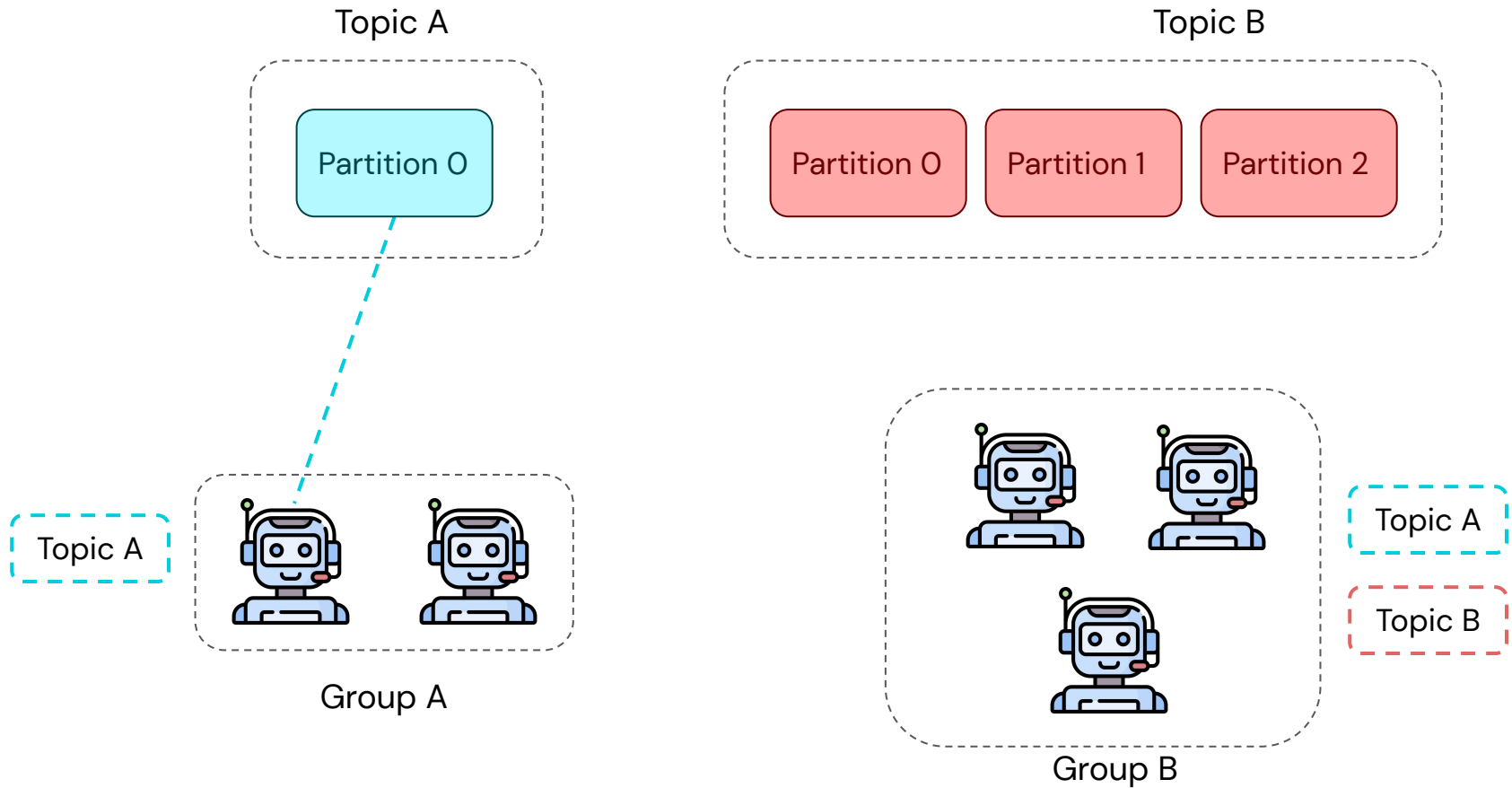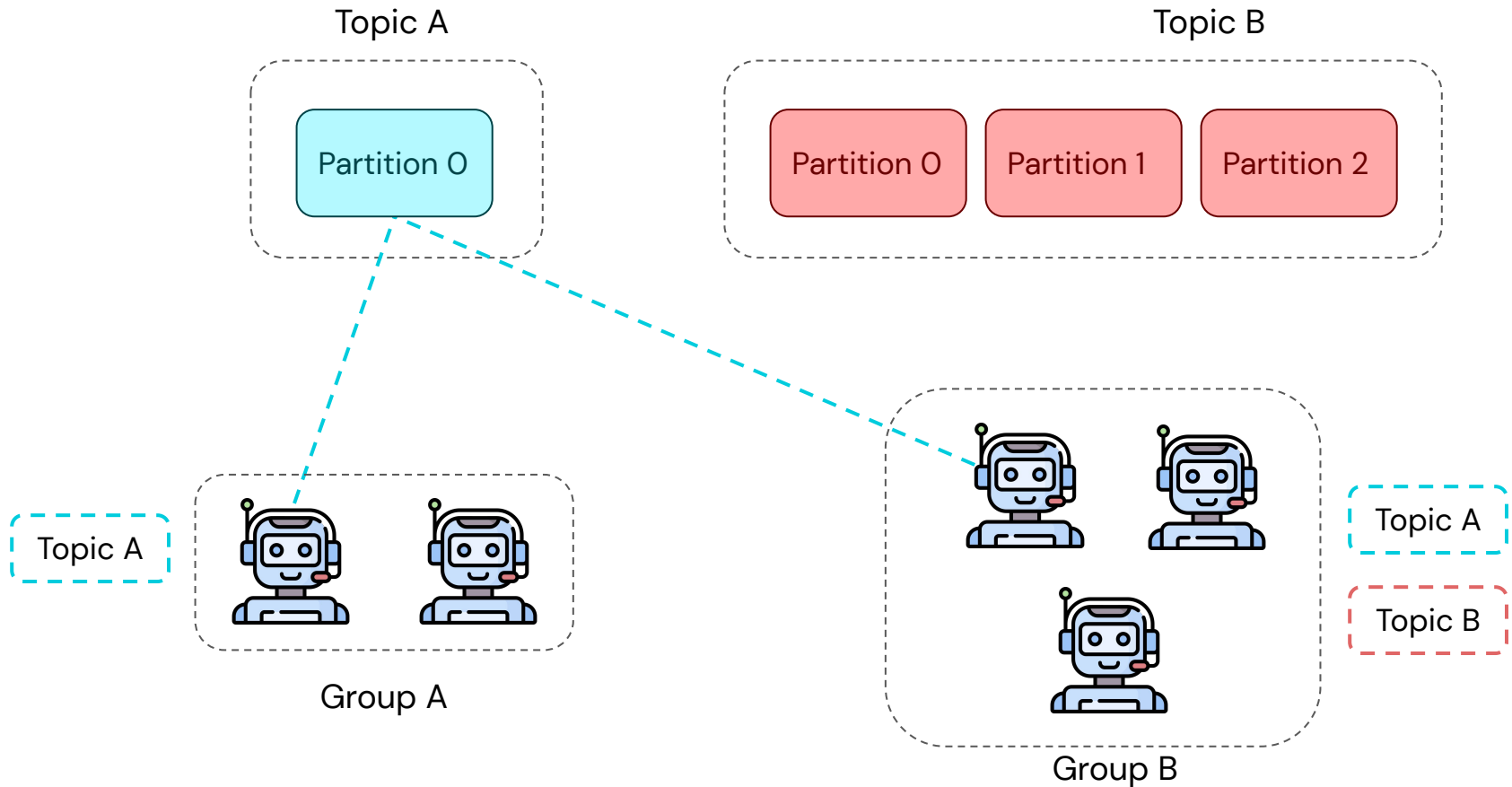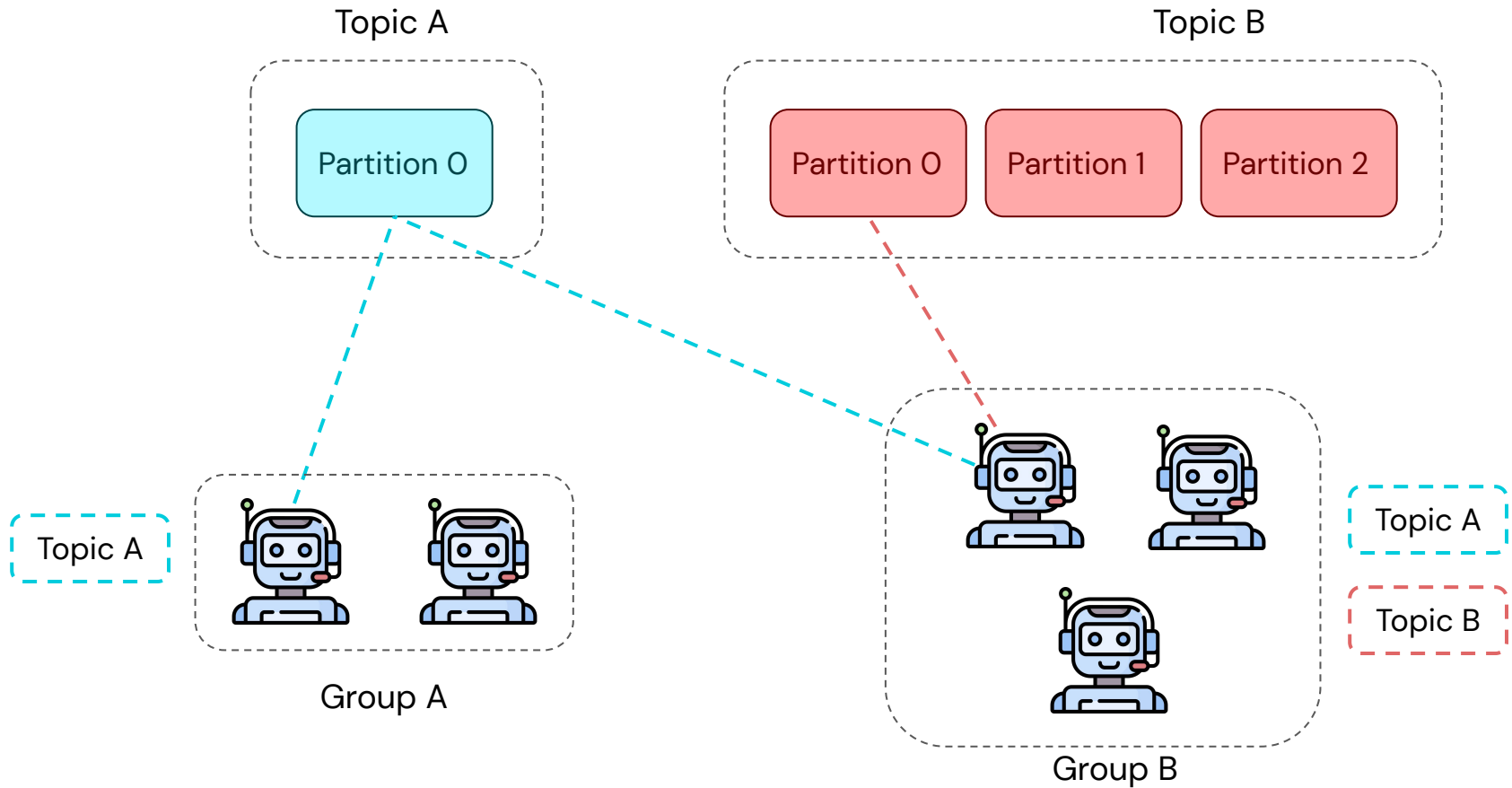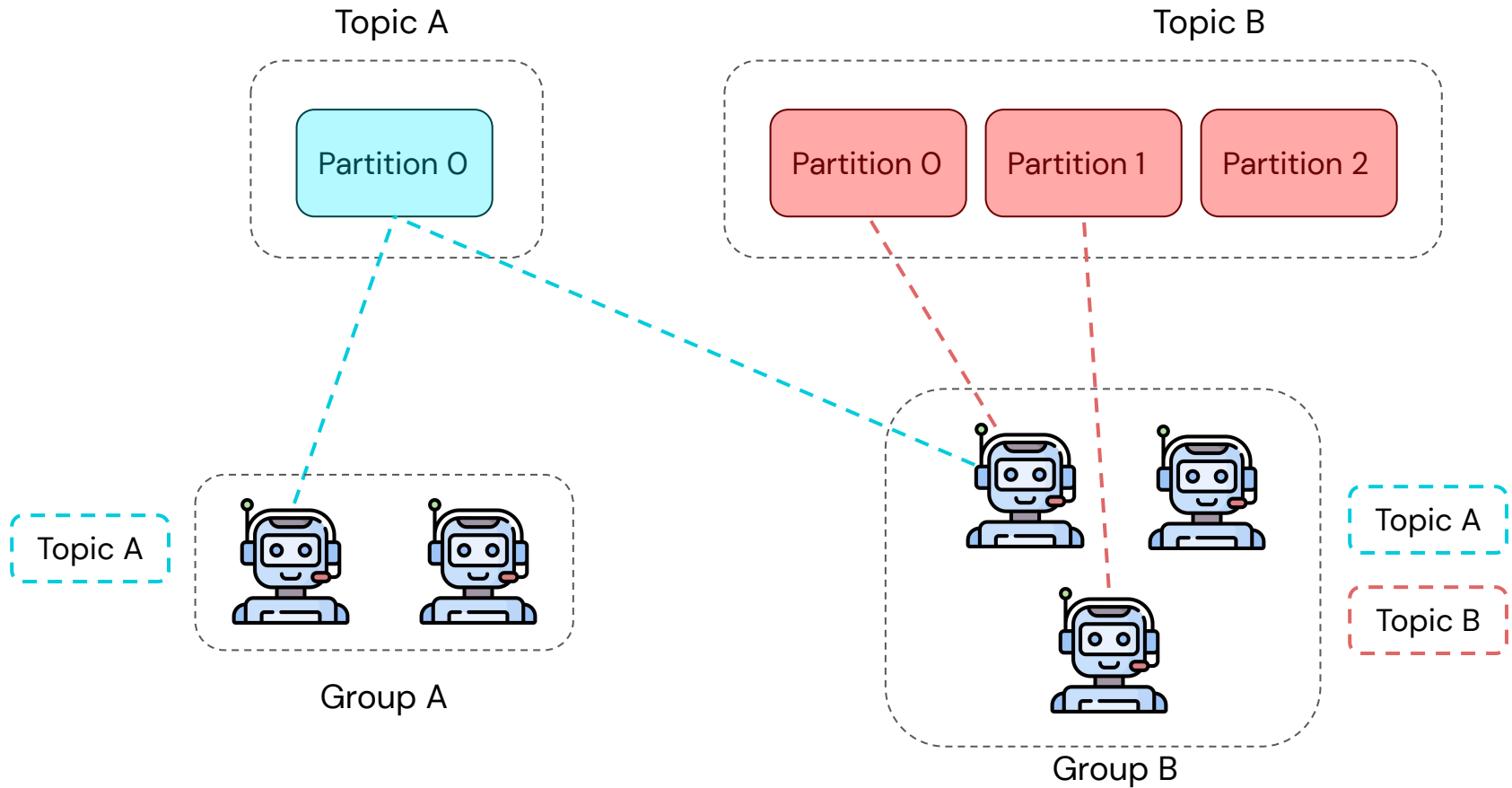
Consumer Groups

Topic A

Partition 1   Partition 2

Topic B

Partition 3   Partition 4

Consumer Groups

Topic A

Partition 1 | Partition 2

Topic B

Partition 3 | Partition 4

Topic A

Topic A

Topic B

Consumer Groups

Consumer Groups

Topic A

Partition 1   Partition 2

Topic B

Partition 3   Partition 4
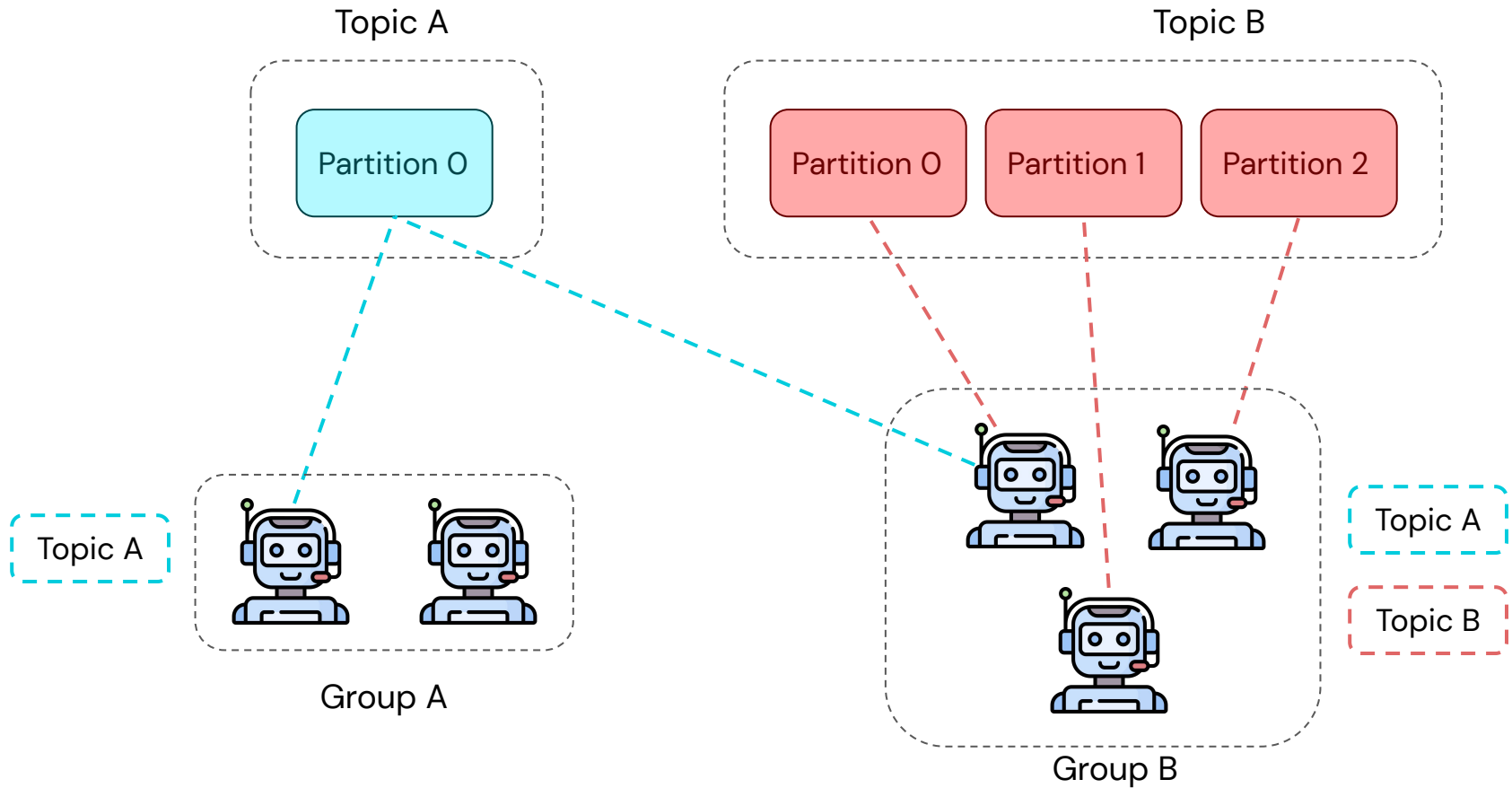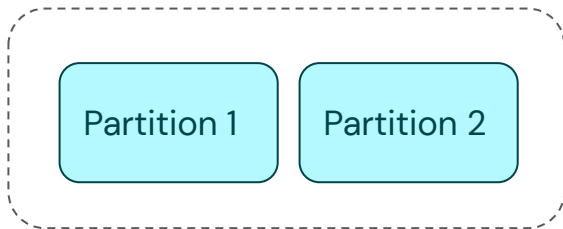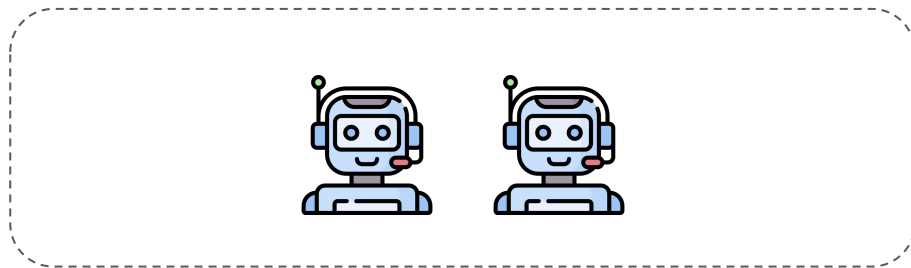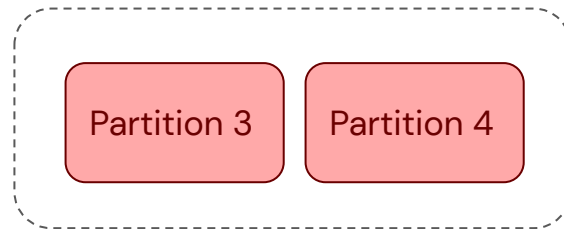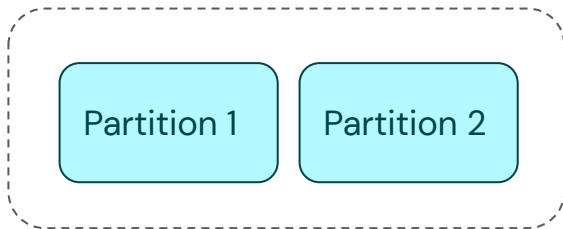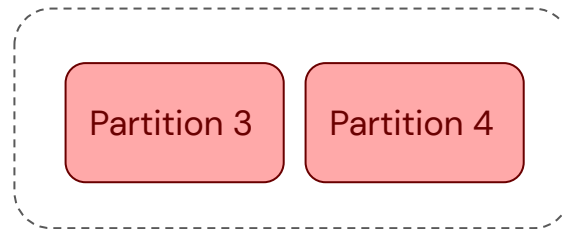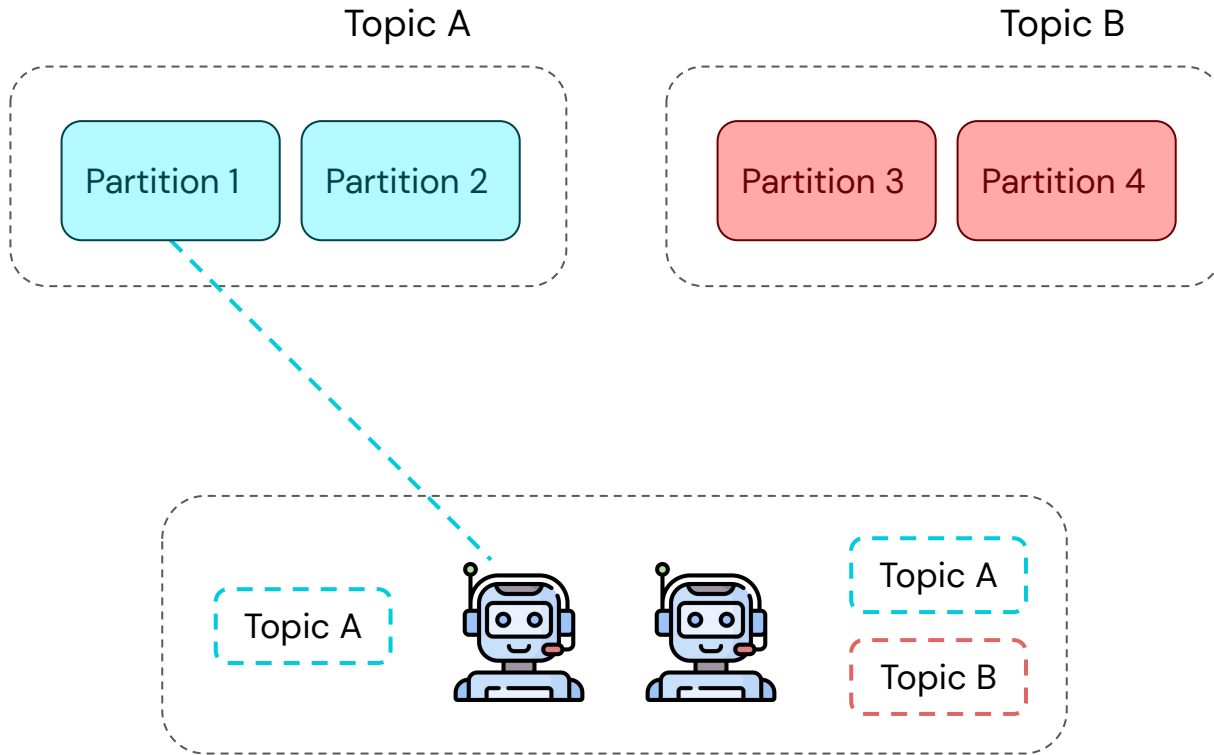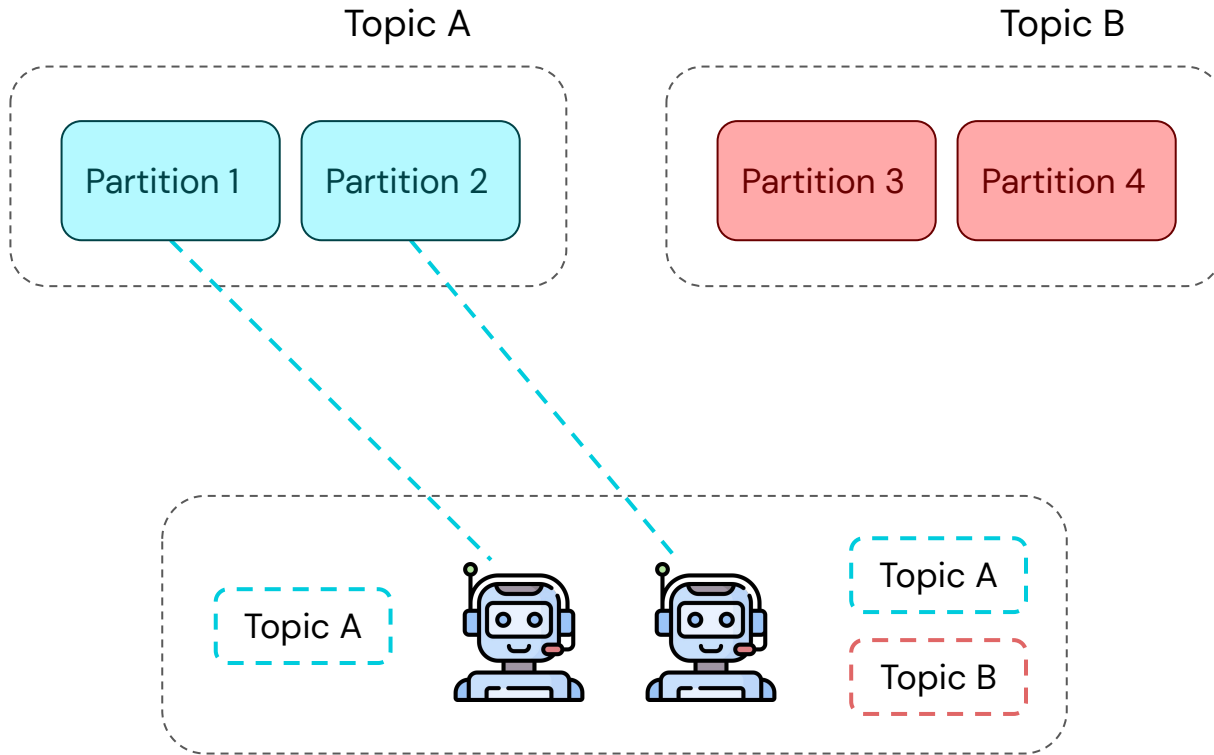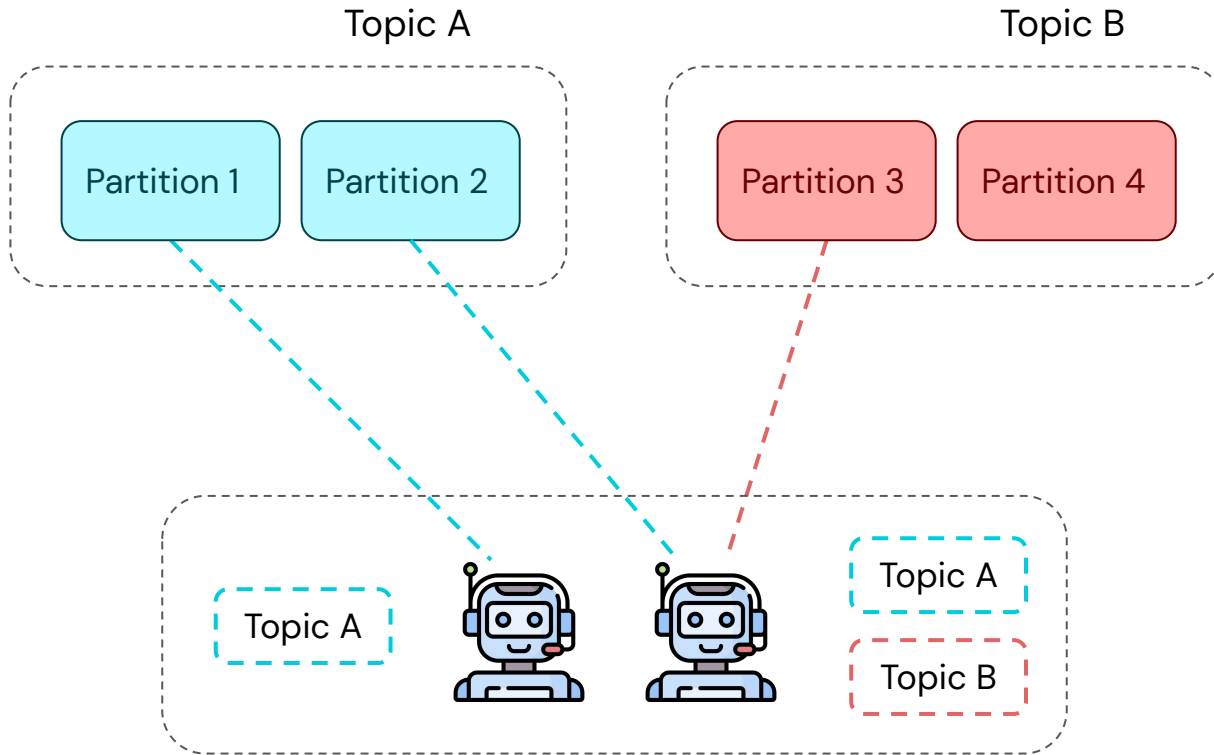
Topic A

Topic A

Topic B

Consumer Groups

Consumer Groups