

A large flock of birds, possibly terns, is captured in flight against a clear, deep blue sky. The birds are scattered across the frame, with some in the foreground and others further back, creating a sense of depth and movement. Their wings are spread, and they appear to be flying in various directions.

Event sourcing in practice lessons learned.

Event sourcing?

Store events instead of
current state



Testing





Testing

Old events need to work

Write raw events to database

Monitoring

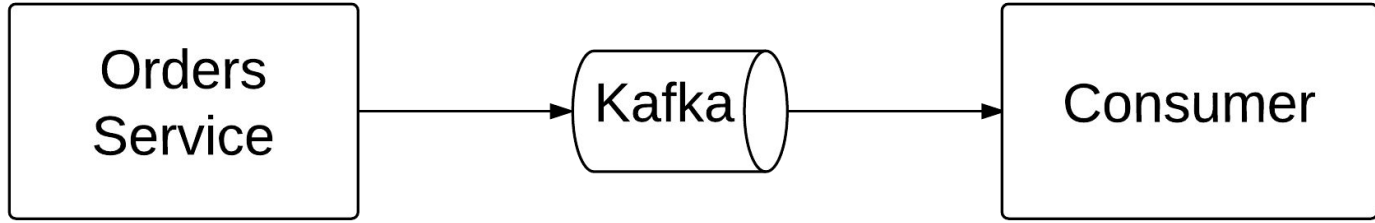
Used to monitor what went wrong



Monitoring

How do you know that
something that should have
happened didn't happen?

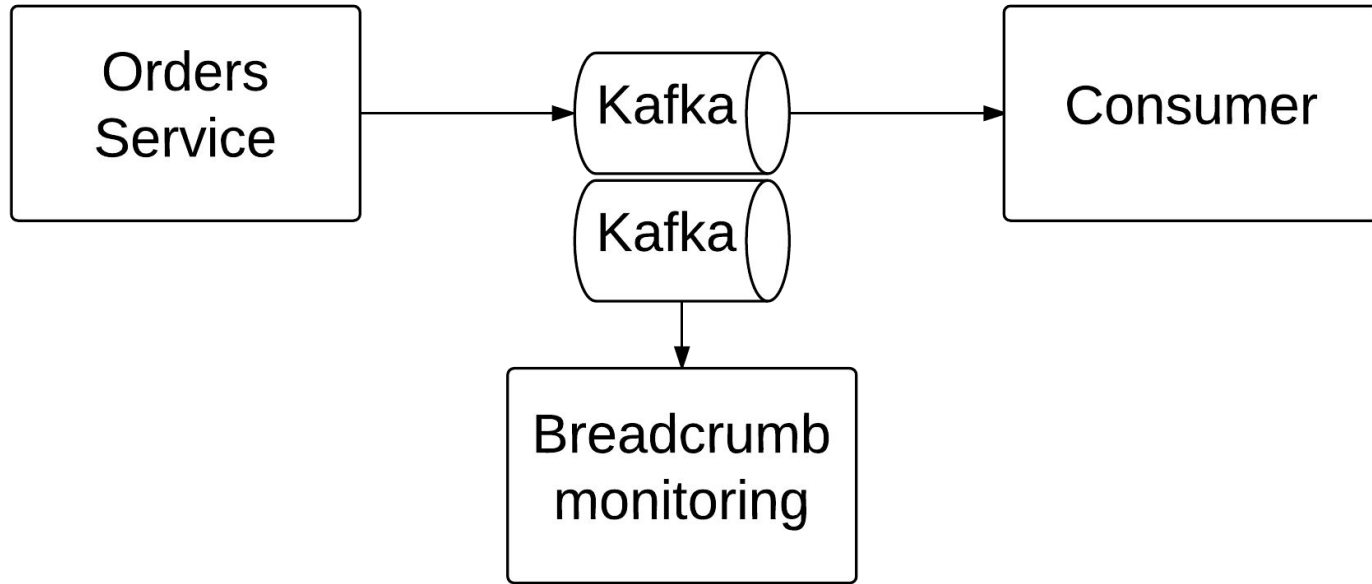


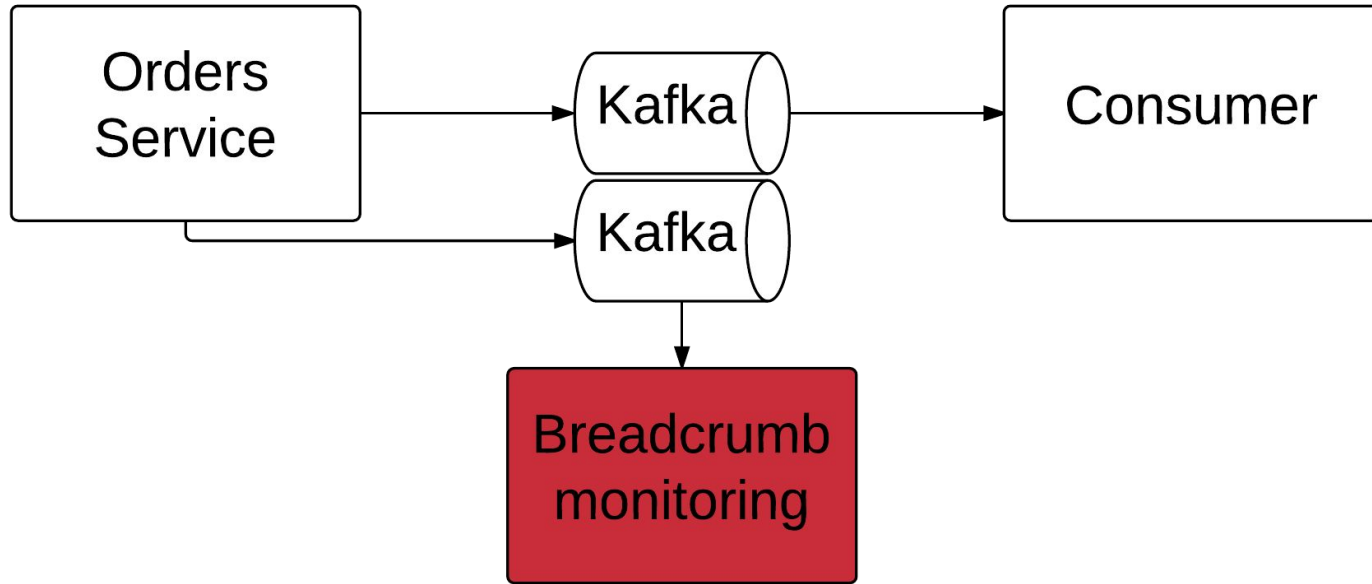


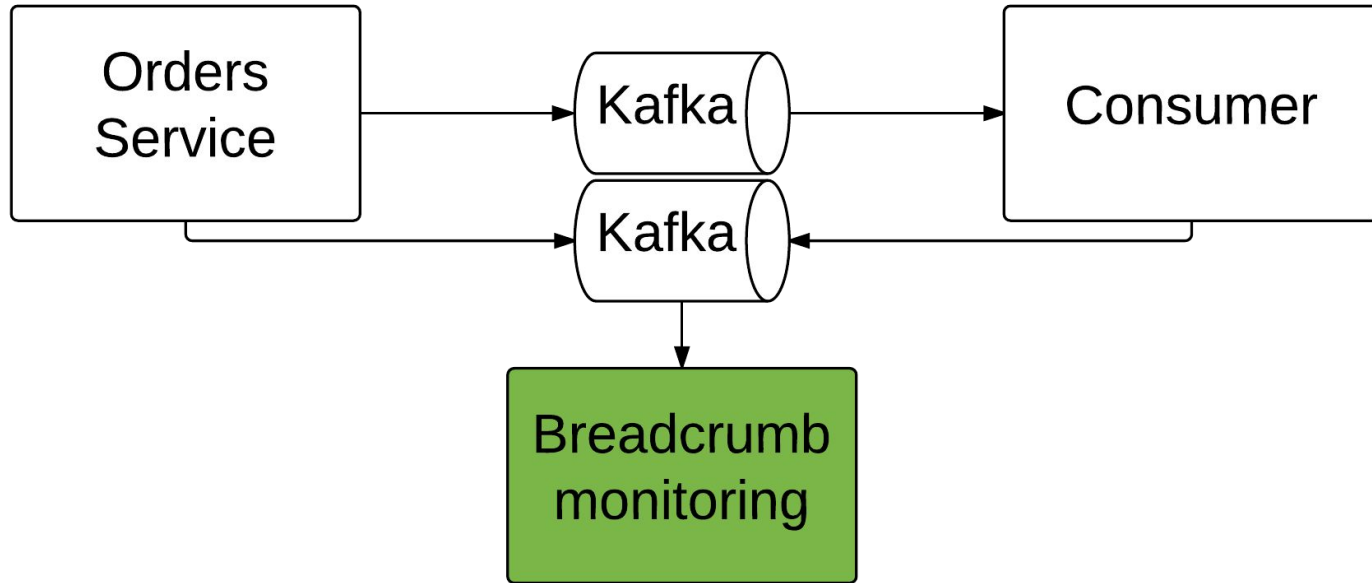
Monitoring

Breadcrumbs!





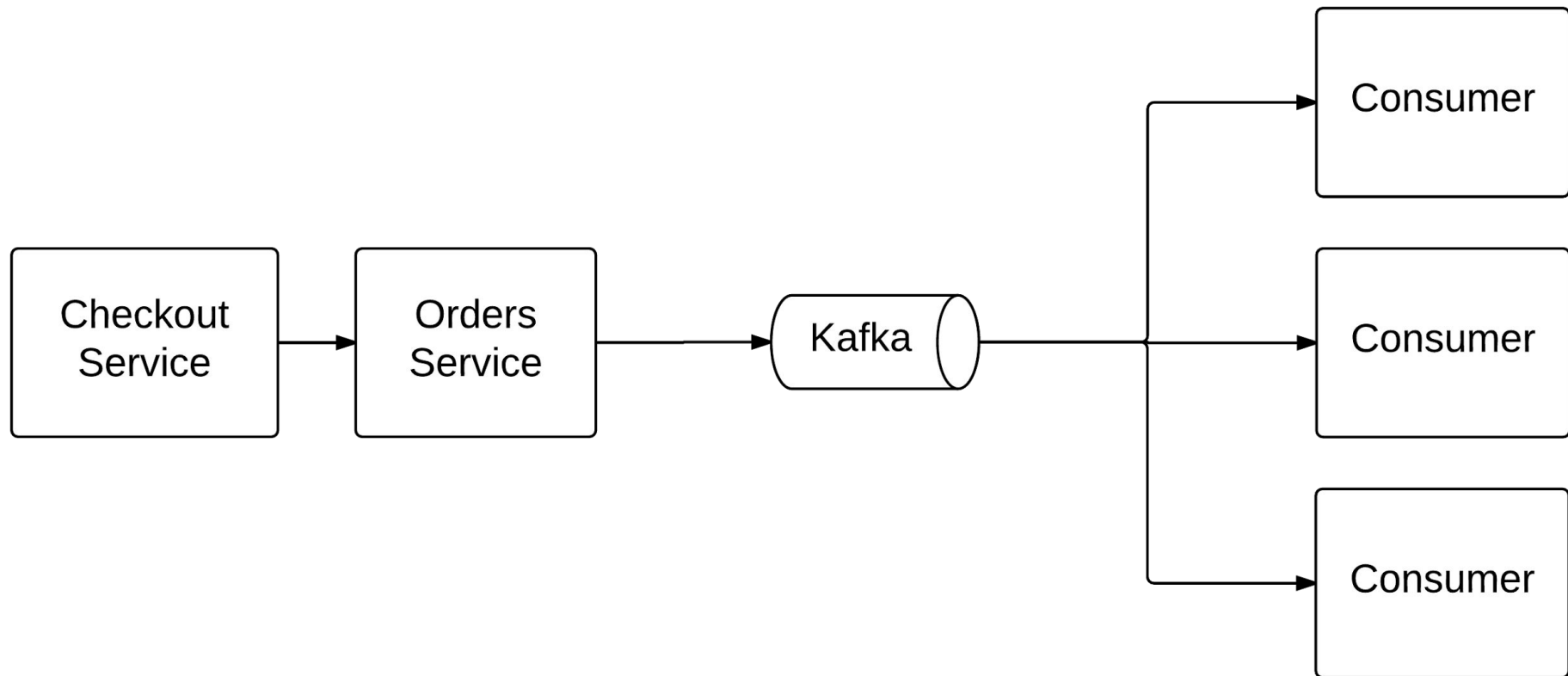


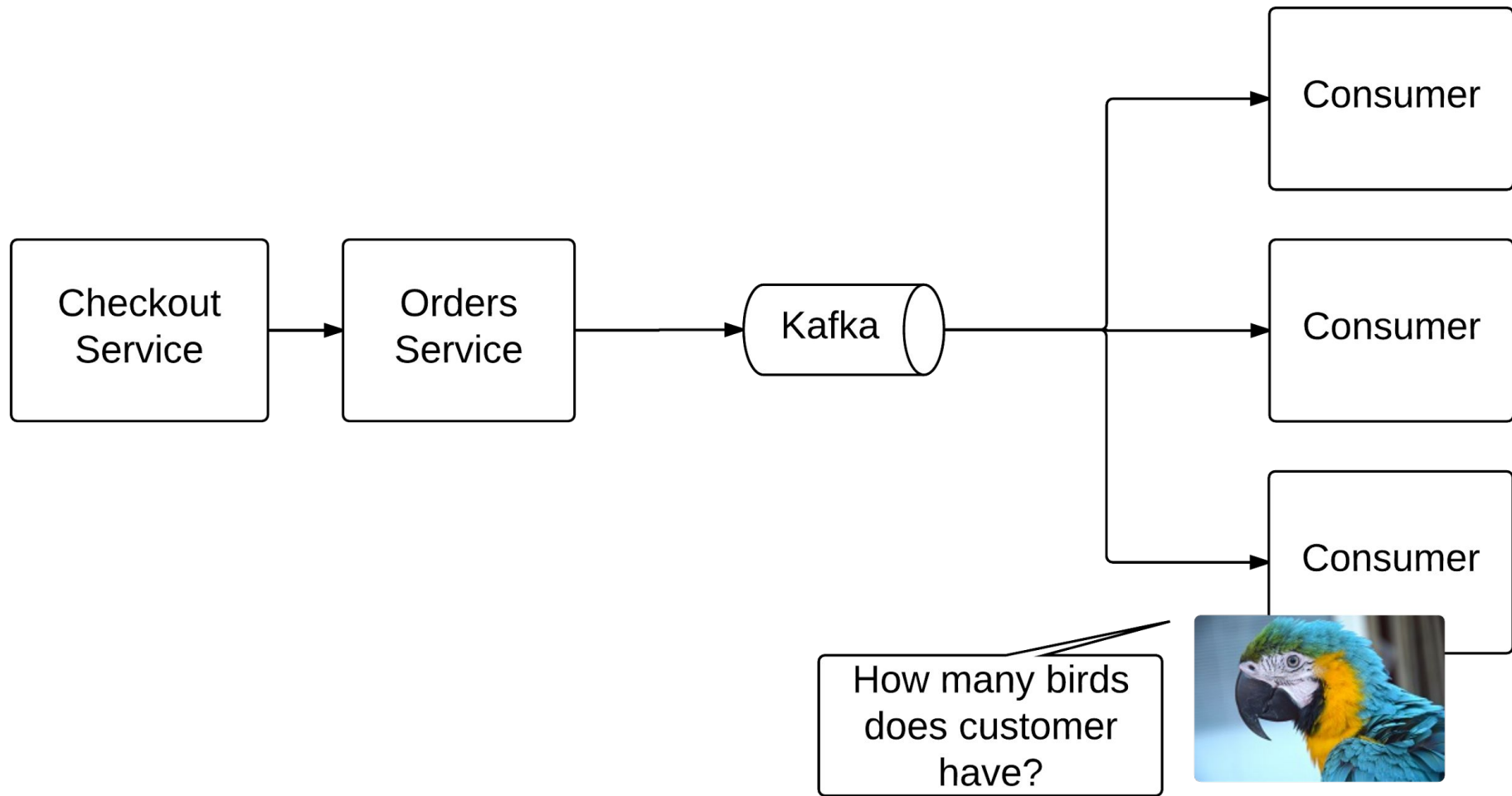


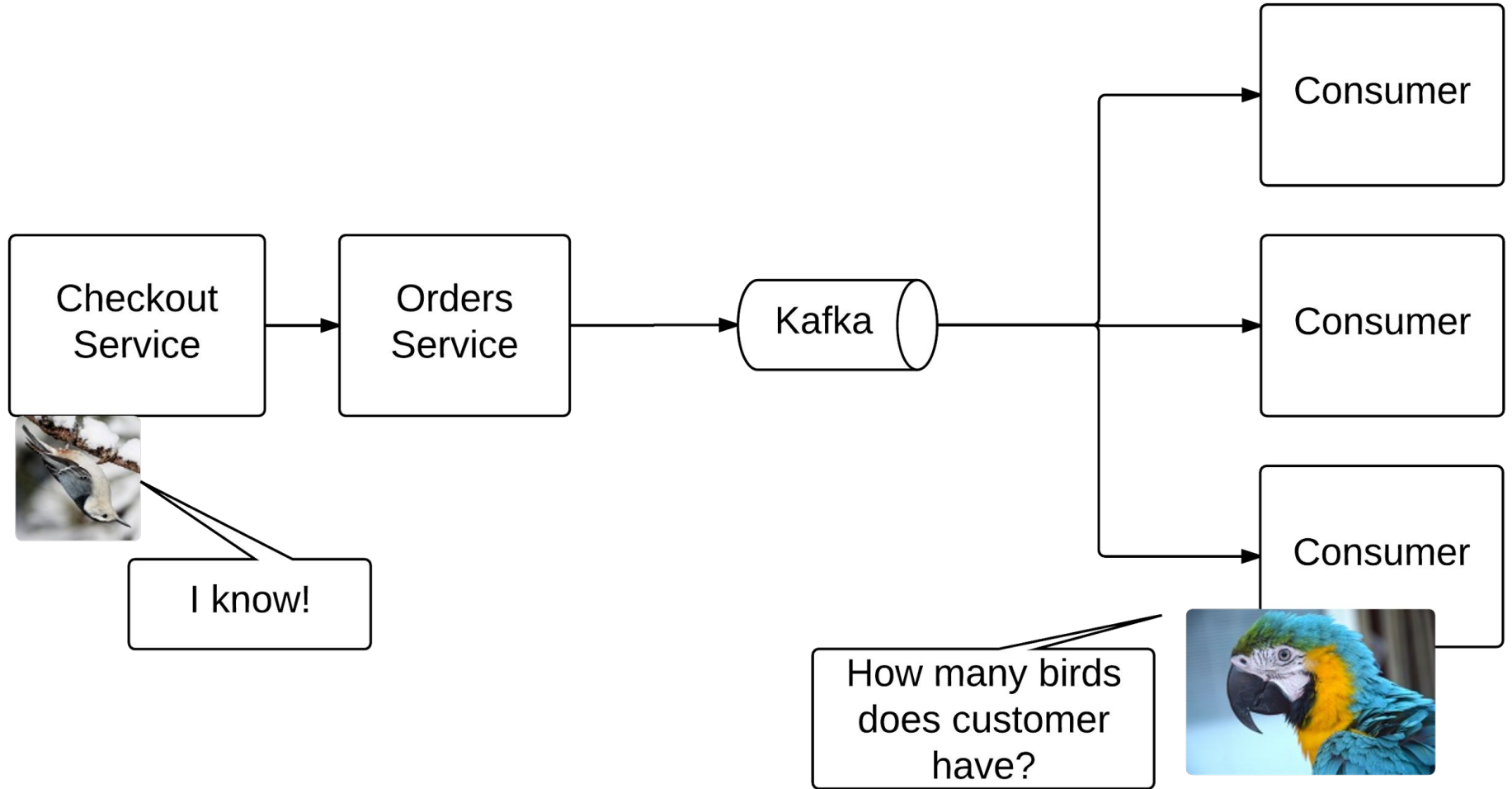
Protect your domain

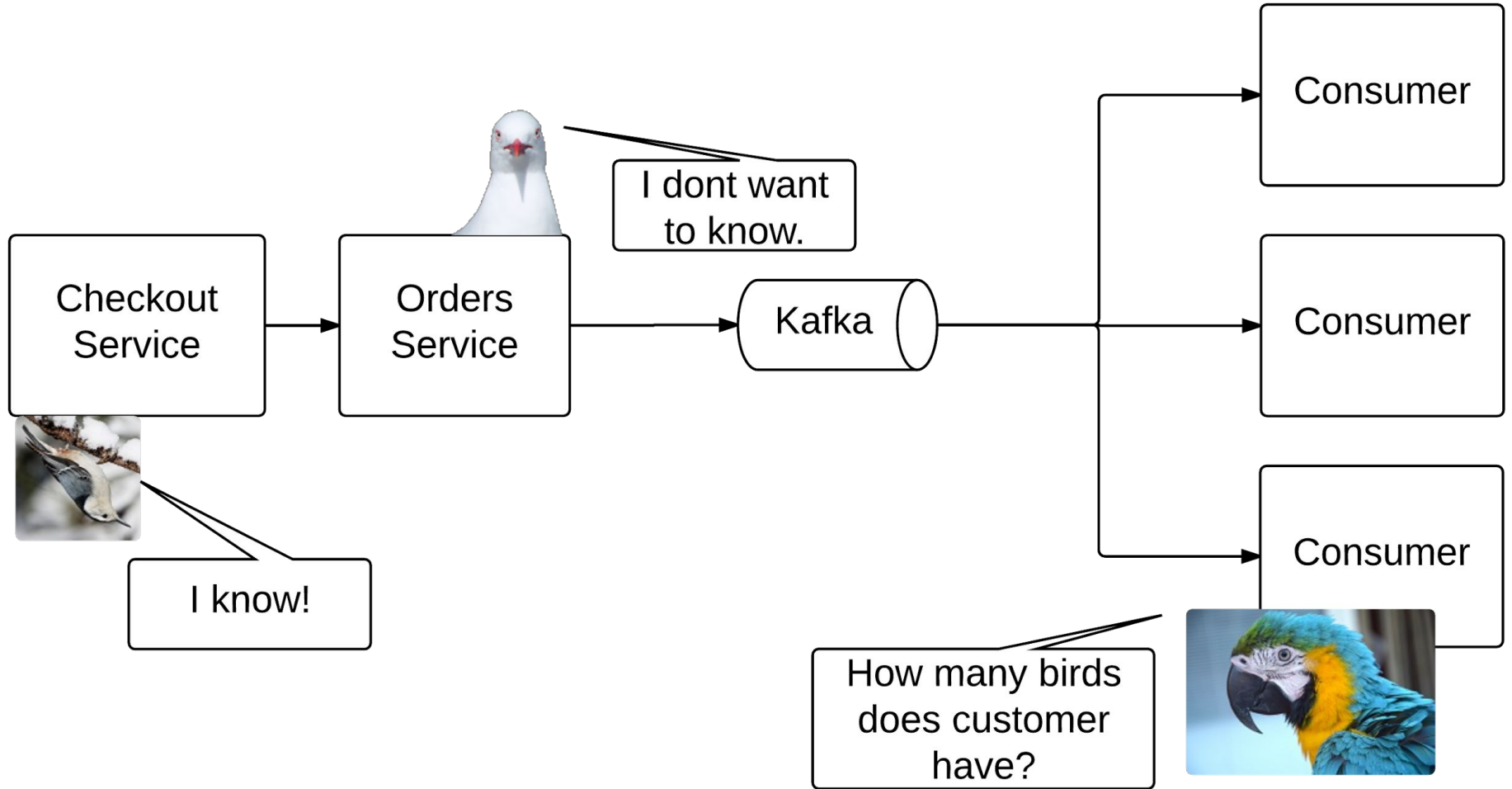
You are not a message bus











Protect your domain

Don't let your domain
become fat.



Event schema

- Avro
- Protobuff



Generalist



Insect catching



Grain eating



Coniferous-seed eating



Nectar feeding



Fruit eating



Chiseling



Dip netting



Surface skimming



Scything



Probing



Filter feeding



Aerial fishing



Pursuit fishing



Scavenging

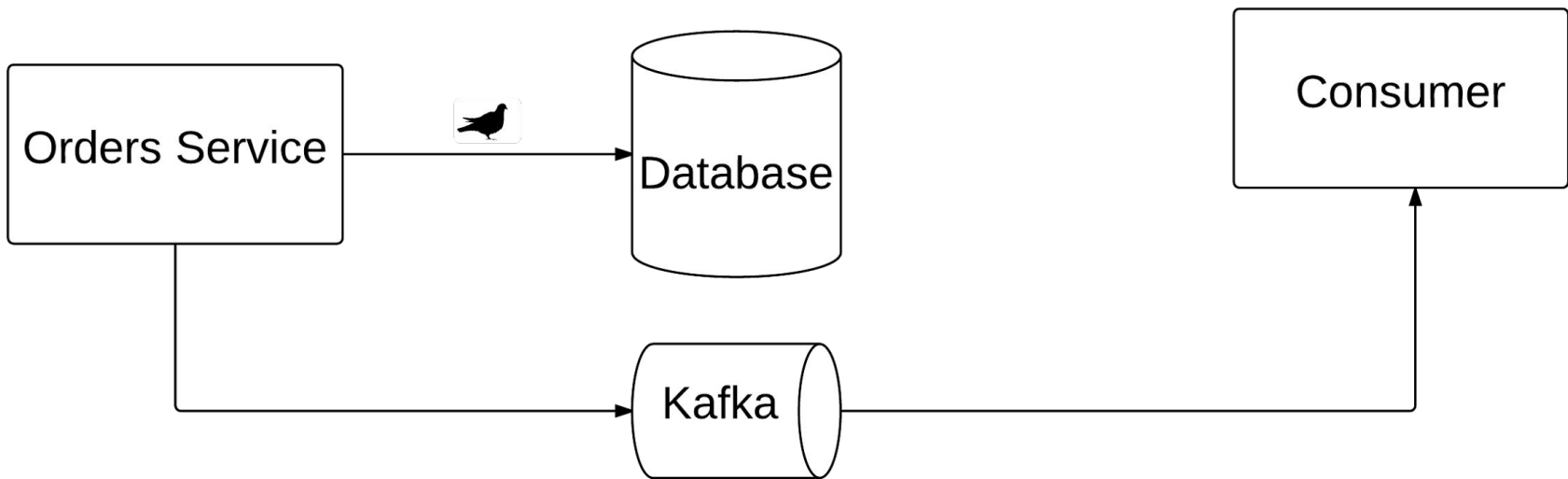


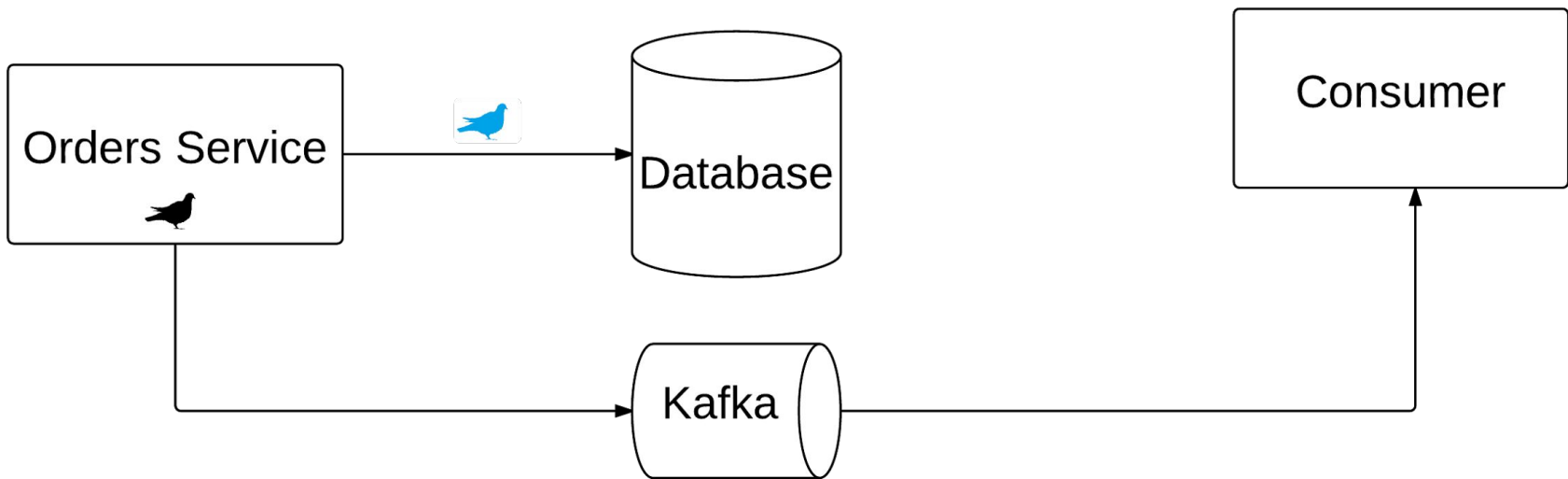
Raptorial

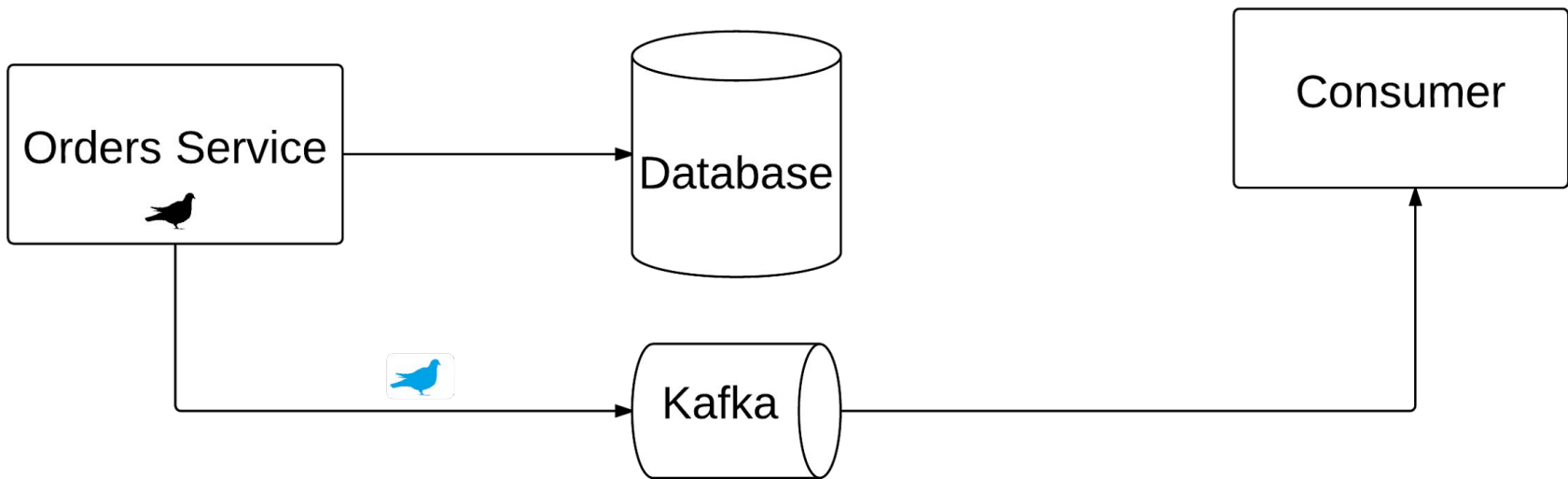


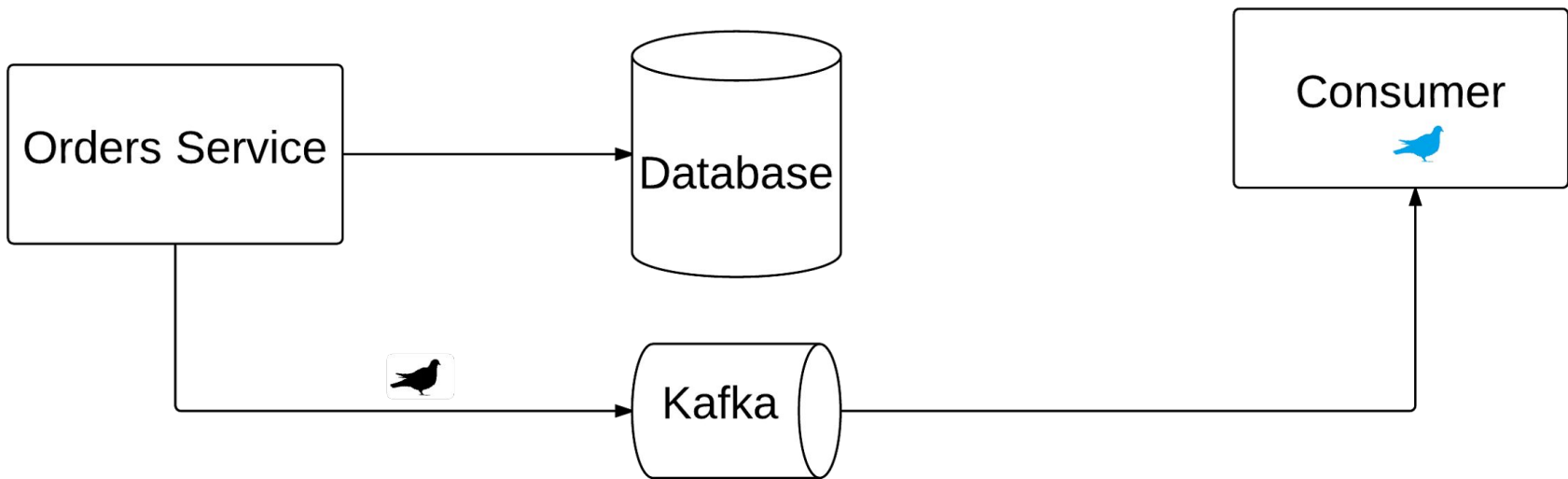
Ordering of events

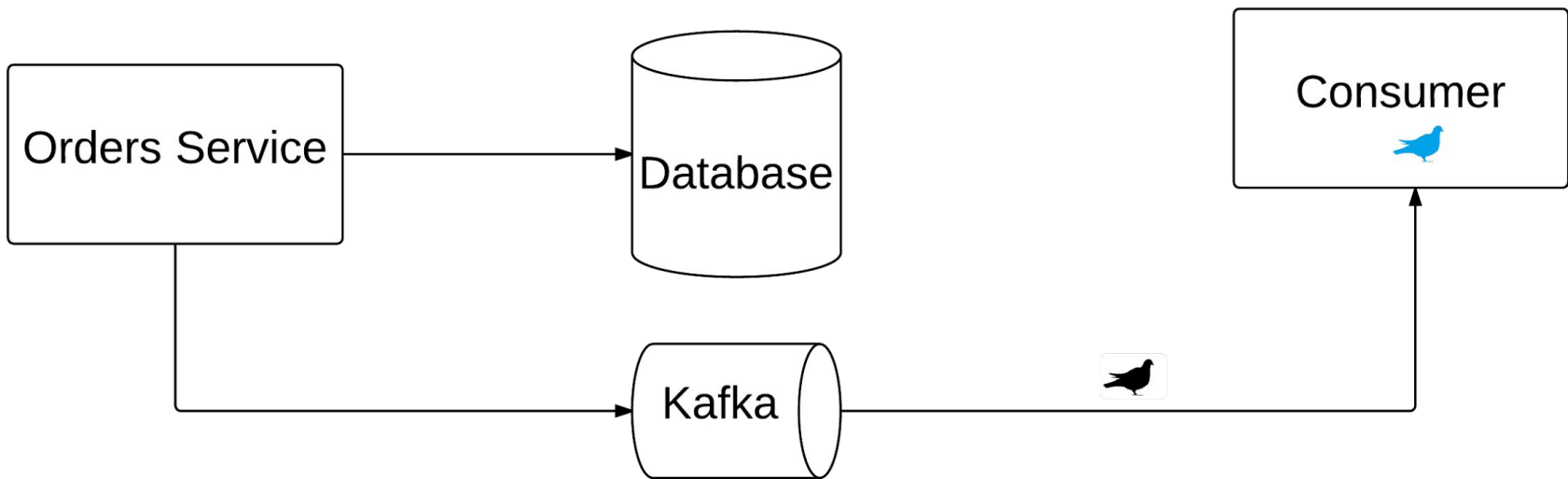
Some messages are faster than others







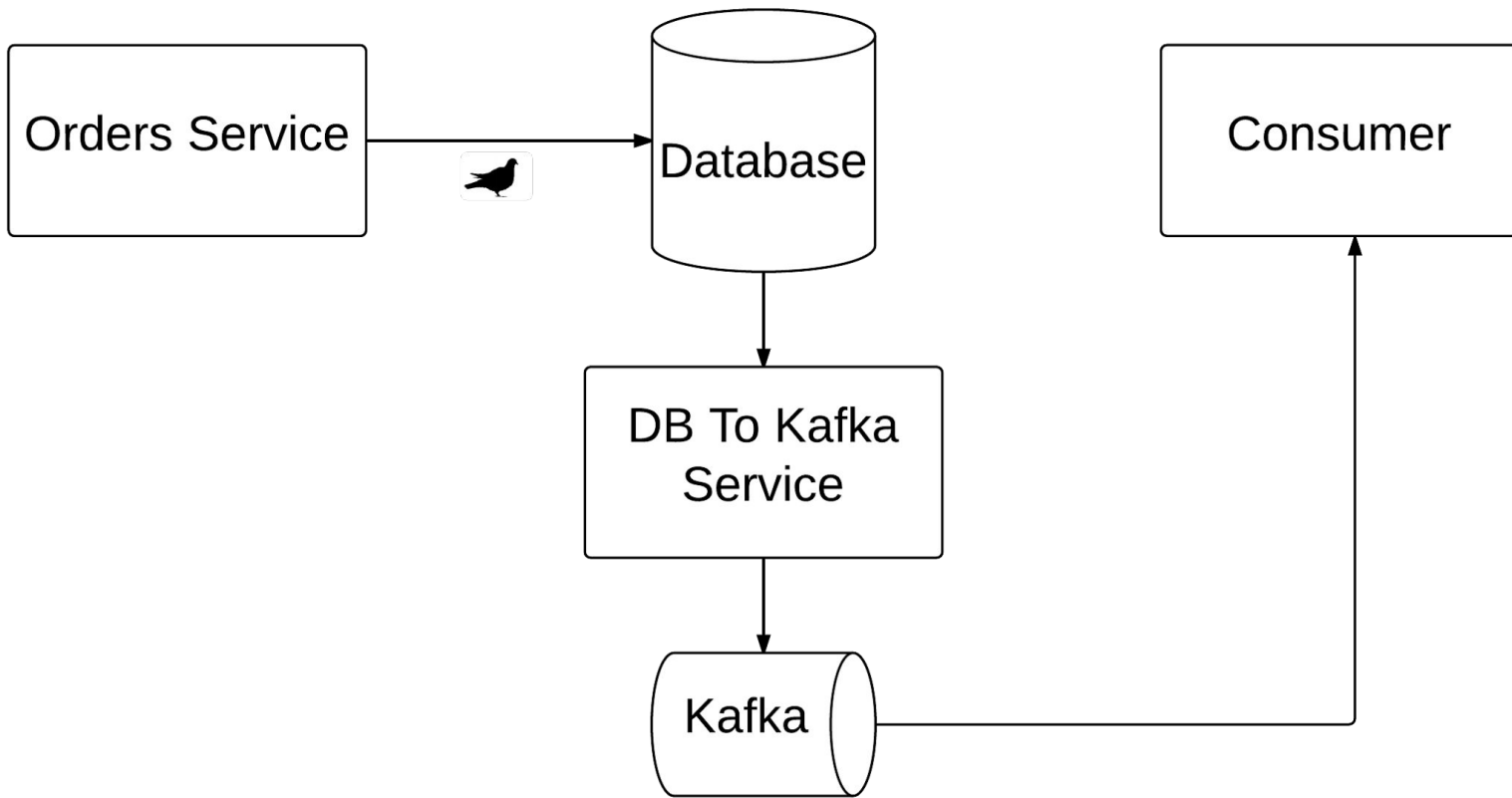


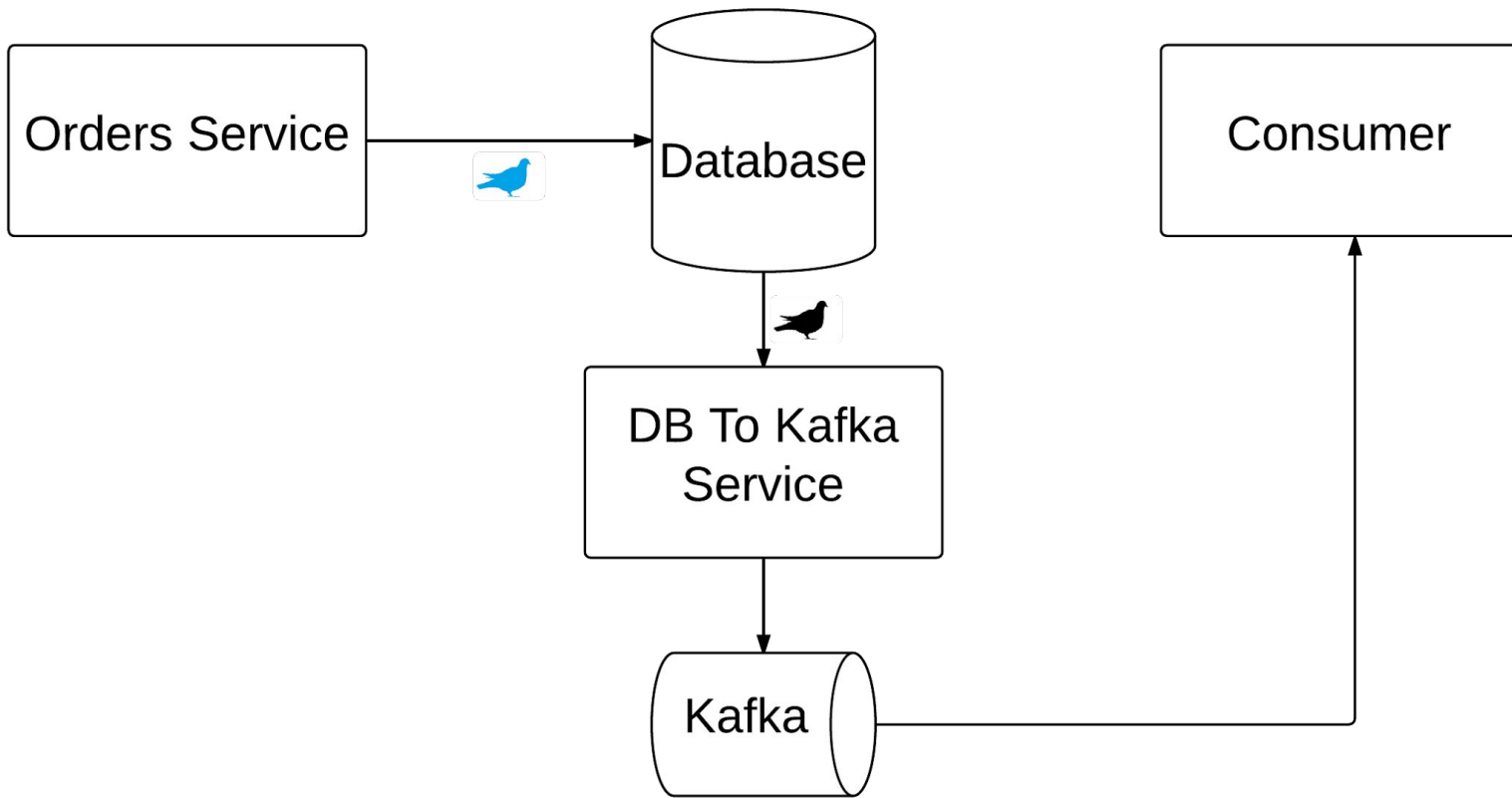


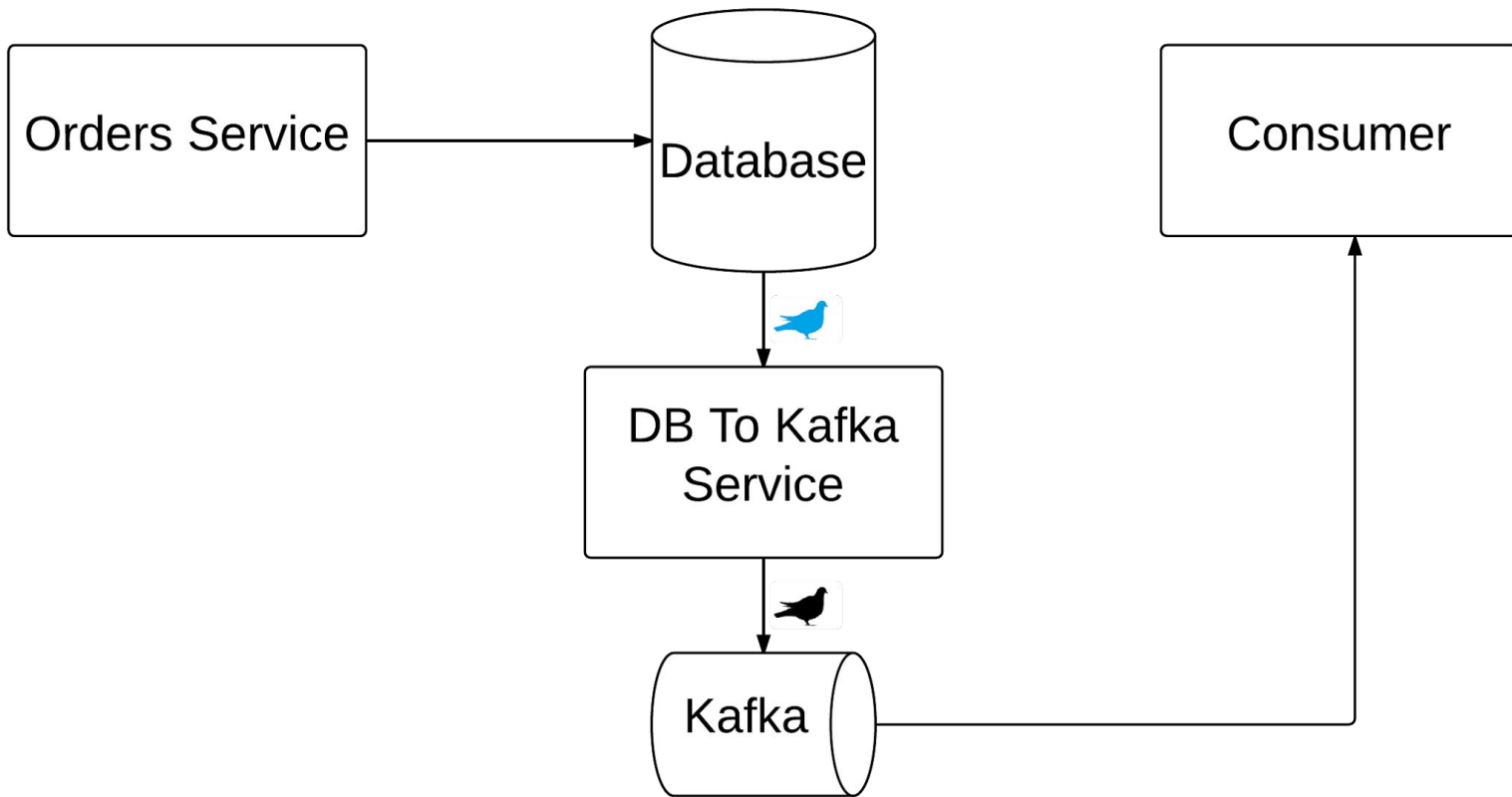
Ordering of events

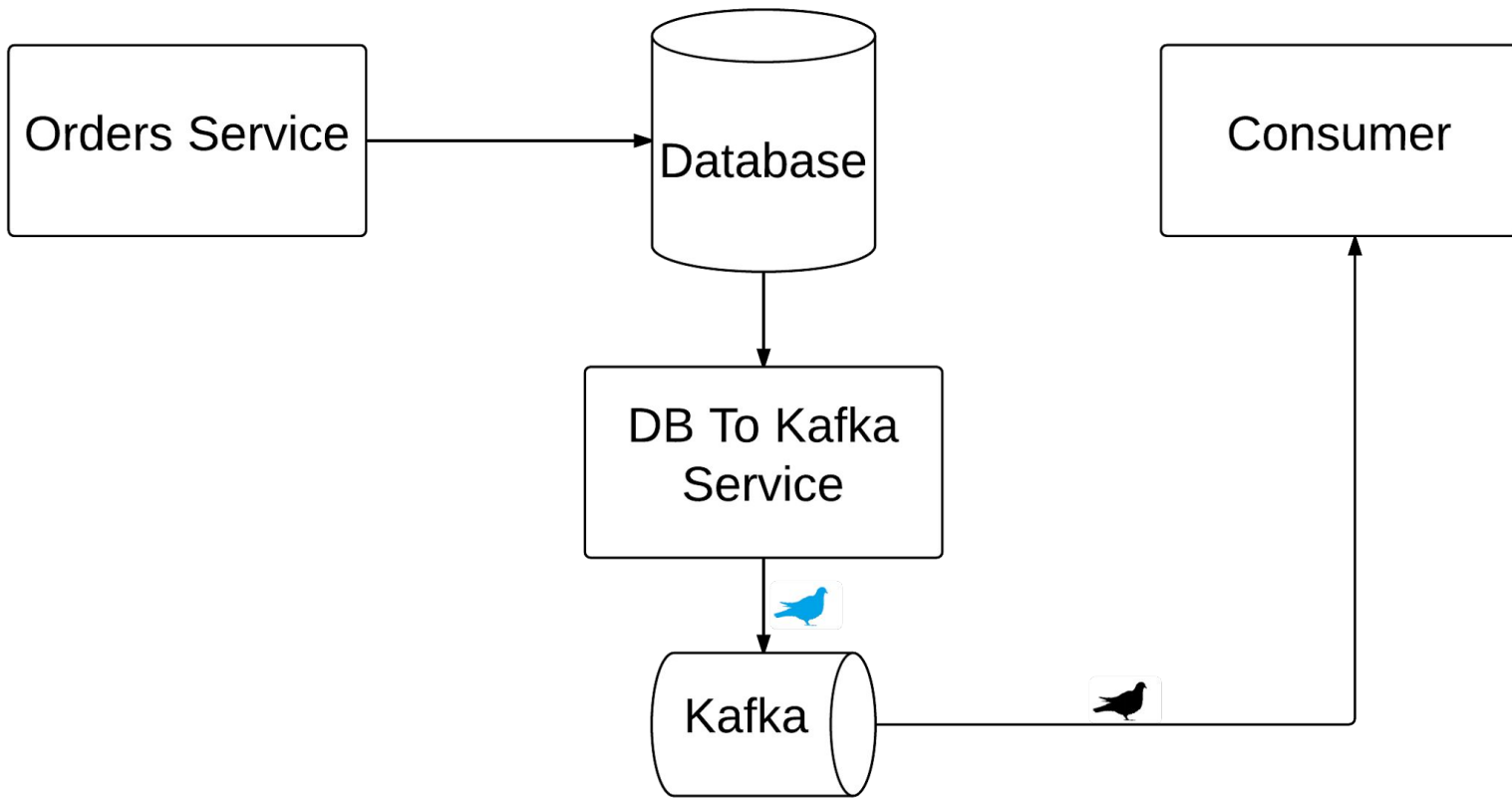
Network can cause
messages to lose order

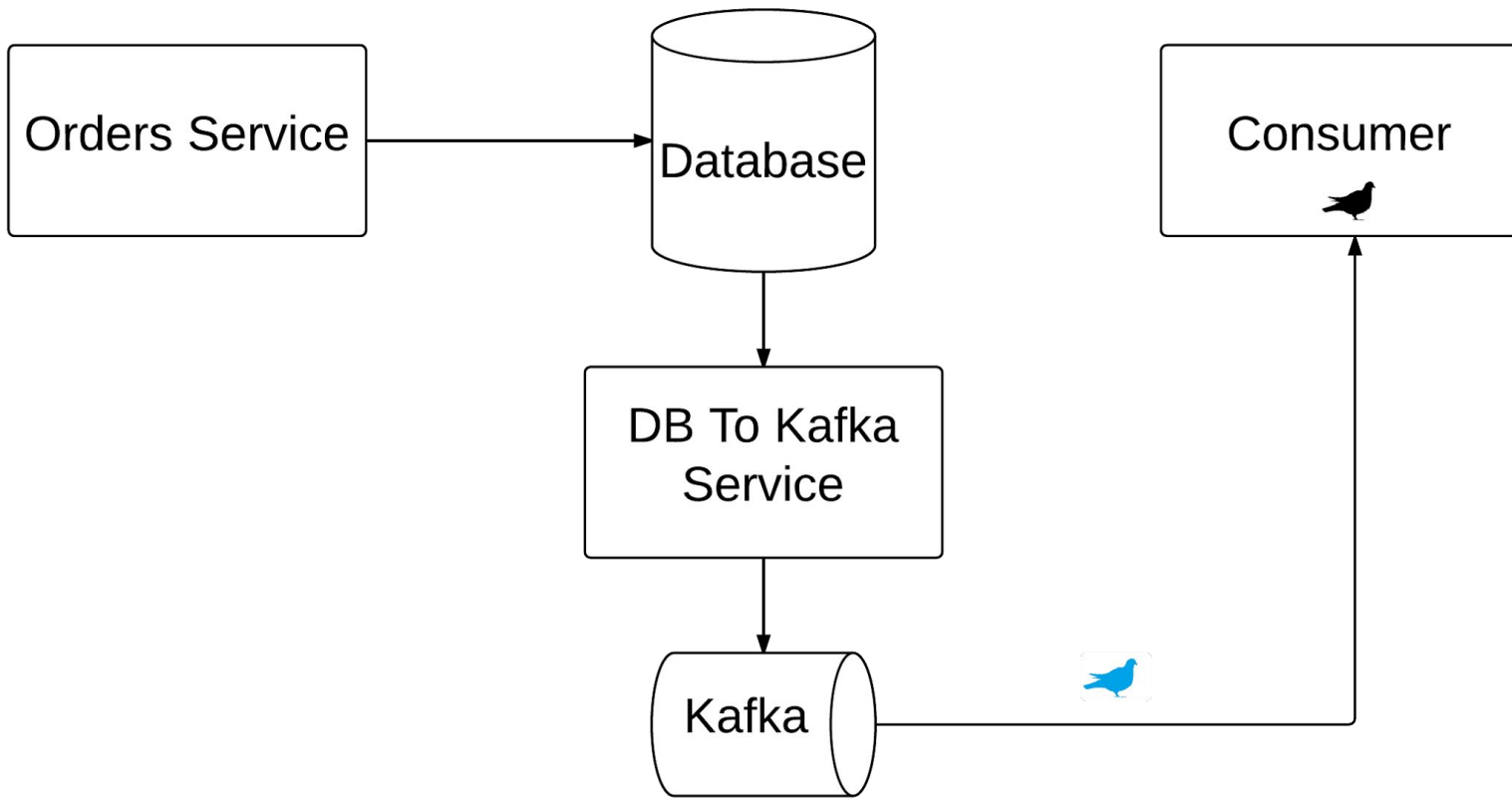


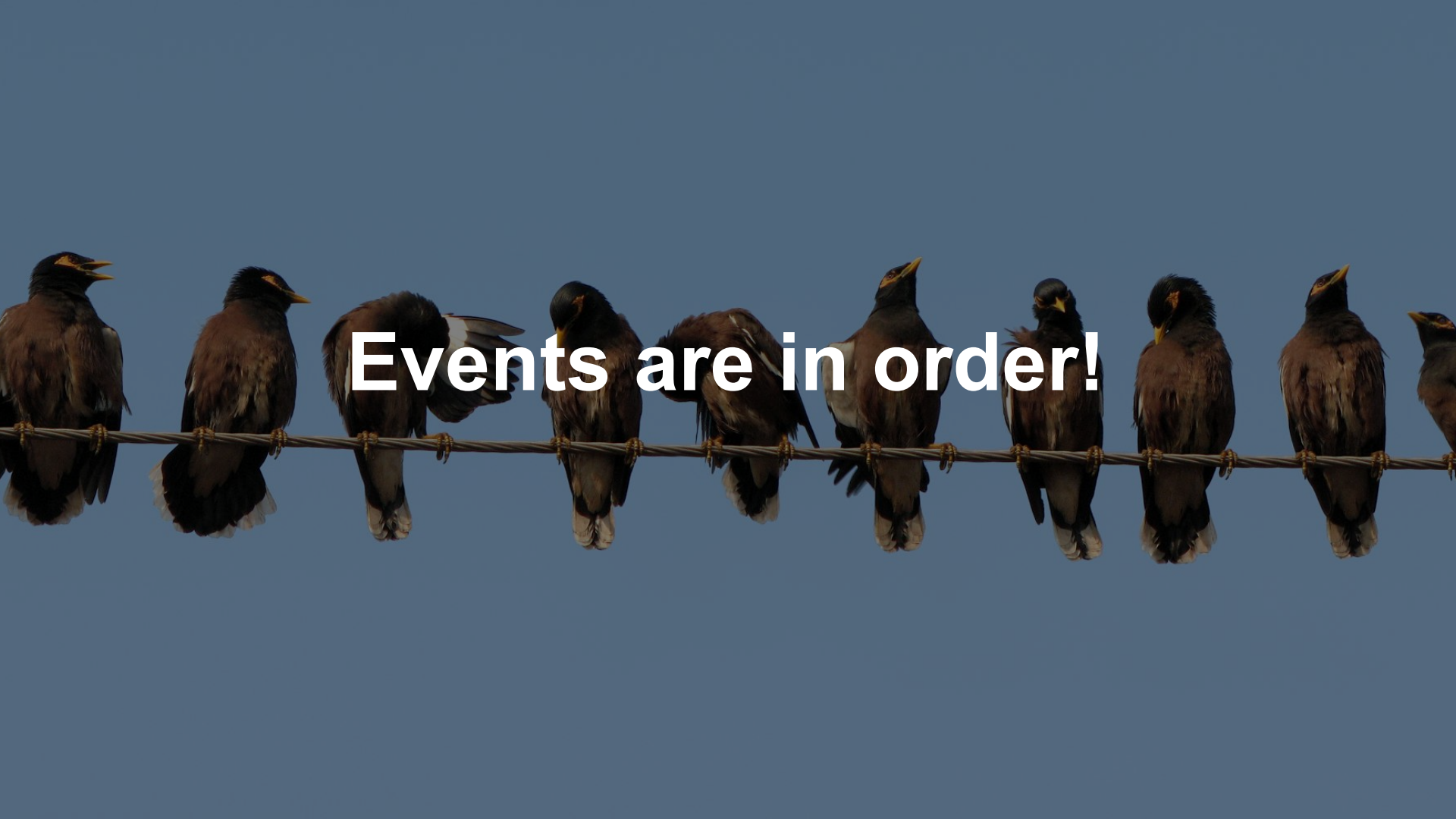










A line of ten mynas is perched on a horizontal wire against a solid blue background. The birds are arranged in a row, with the text 'Events are in order!' centered over them. The birds exhibit various postures: some are looking forward, some are looking back, and one on the left has its beak open. The text is white and bold, spanning across the middle of the image.

Events are in order!



The good

- Your queries are always fast
- Replicating immutable data is easy
- You can't query the data easily
- Encourages good domain models
- Nothing is ever deleted

Images

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Thank you

mikael.sundberg@klarna.com
@msundb

