### Why Kafka?

Features the following

Topic-based publish subscribe

Rewindable consumption

High speed streaming

High-speed concurrent reads and writes

### Consumption

Read messages from the command-line

use kafka-console-consumer

Find out who the leader of a partition is

use the describe option in kafka-topics.sh

Specify which partition to write messages to

Decide on a partitioning algorithm

This may be either semantic, or random.

Kafka guarantees that a given key will always get hashed to the same partition.

consumer that supports specifying offsets

kafka-simple-consumer-shell.sh --topic mike --broker-list localhost:9092 --partition 1 --print-offsets

Display topic partition info in zk

[zk: localhost:2181(CONNECTED) 23] get /brokers/topics/mike/partitions/0/state

{"controller\_epoch":2,"leader":1,"version":1,"leader\_epoch":2,"isr":[3,1]}

cZxid = 0x100000031

ctime = Mon Feb 15 19:28:51 EST 2016

mZxid = 0x10000015e

mtime = Mon Feb 15 19:51:32 EST 2016

pZxid = 0x100000031

cversion = 0

dataVersion = 3

aclVersion = 0

ephemeralOwner = 0x0

dataLength = 74

numChildren = 0

Display offsets

bin/kafka-run-class.sh kafka.tools.GetOffsetShell

./kafka-run-class.sh kafka.tools.GetOffsetShell --topic mike --broker-list localhost:9092 --time -1

Specifying where to start reading data

Read starting at Nth meessage

Topics

How partitioned?

view data directory structure

Use cases

Create a feed

Subscribe to a feed

Why not Kafka?

Queries

Create topic

Write messages

Load Balancing

Why

Load balancing can be