Wednesday, February 24, 2021 5:13 PM

CAP theorem >>

https://www.ibm.com/cloud/learn/cap-theorem

Live coding of kafka streams >>> custom serde >><
https://livebook.manning.com/book/kafka-streams-in-action/chapter-3/165

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https://www.youtube.com/watch?v=7Faly8jORIw

Very good ppt
https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqa3BxTUtoYmkyLWRnS0c1djRRM3dCSVNnVWEyd3xBQ3Jtc0ttVGhmdWxCV05od2RBdGsxcENMTHZIWFNpOTNLcmNEekI4N05tSEV4V2ZJV2IfY1FCc05mNk1wQnA0YTFaMXdNRHRLb0JPUlFrMVZYRFY4TFdNeDVoNlIPZlILaIBySTdvWnUwQUhra1Z3ek1meFBmOA&q=https%3A%2F%2Fwww.slideshare.net%2FPivotal%2Frabbitmq-kafka
kafka joint streaming

when you join the steam make sure you have same key and partiotion count is also same

rabbit mq
direct exhcange > based on exact matching of rrouting key
topic exchange > wild card of routing key mattches for eg ".".eu or eu.de.*
fanout exchange: which delivers message to all queues reagrdless of routing key or pattern matching

tips for kafka
use ack=0
ack =1 to balance between reliability and latency

linger of 5ms is a good thumb rule
increase batch size for higher throughput
low linger for low latency

if you have a large files
> put files in a shared lcoation and send location of files on kafka
break down file to right size and use keys to ensure ordering processing

using keys>

using null keys gives best performance and balanced partion across cluster
to establish ordering you cannot have null keys as ordering will be accoplised based on keys

use keys only if you need ordered messages in real time or joins across differnt topics

ectremaly large messages may block consumers if the consumers is not adequte buffer size. if there are some large messages, consider using separate topic.

watch out for zombie brokers in older kafka table

restarting cluster with large numbre of partitiotns the leader election takes time.

if consumer crashes or unable to send heartbeats, the partitiotn reassignment will take time and during this time no consumer in the group can rocess the messgae