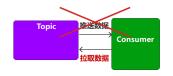
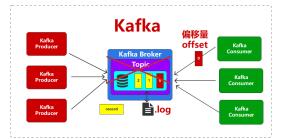


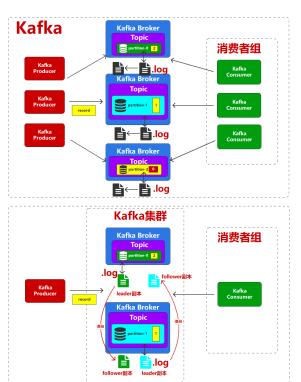
RabbitMQ, ActiveMQ, RocketMQ, Kafka





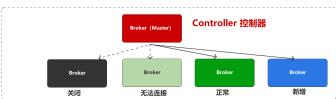


横向扩展 纵向扩展

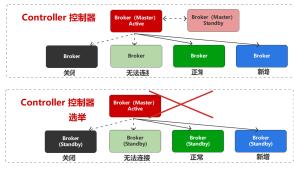


为了数据可靠性,可以将数据文件进行备份,但是Kafka没有备份的概念 Kafka中称之为副本,多个副本同时只能有一个提供数据的读写操作,其他副本只是用于备份 具有读写能力的副本称之为Leader副本,作为备份的副本称之为Follower副本

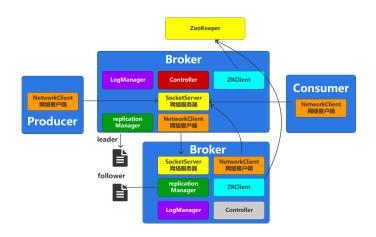
Broker: 服务节点 (集群) Partition:分区 (编号) 副本: Leader和Follower

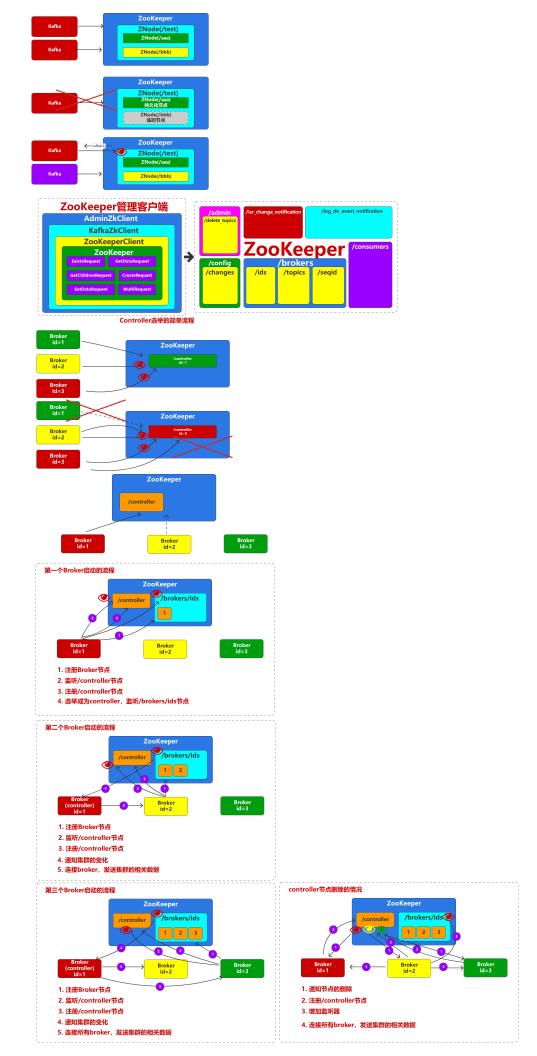


给管理者增加备份

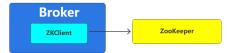






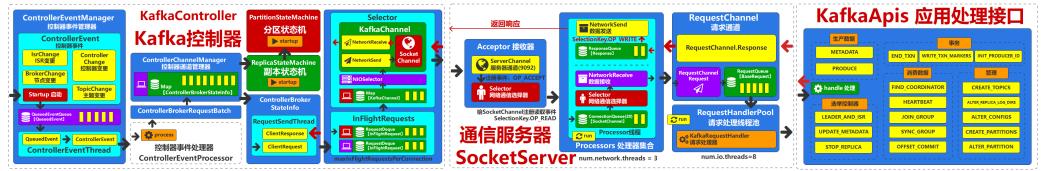


第一个部分就是broker和ZooKeeper之间的通信

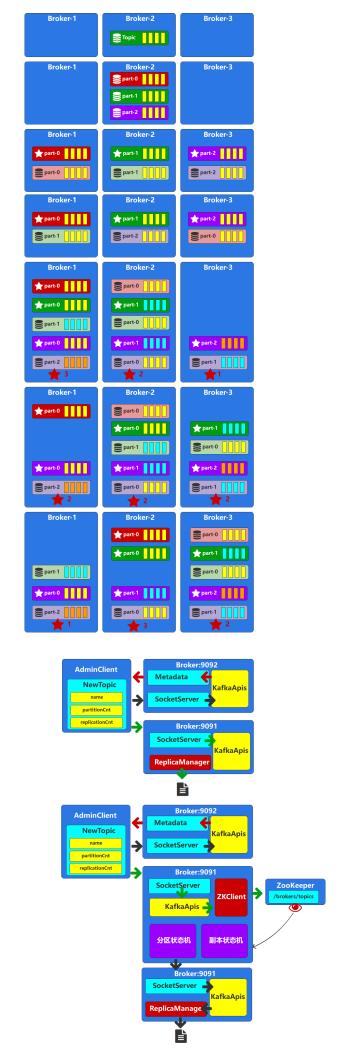


第一个部分就是controller和Broker之间的通信

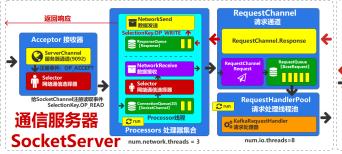
JDK1.4 NIO: Channel, Buffer, Selector, SelectionKey



在途请求缓冲区

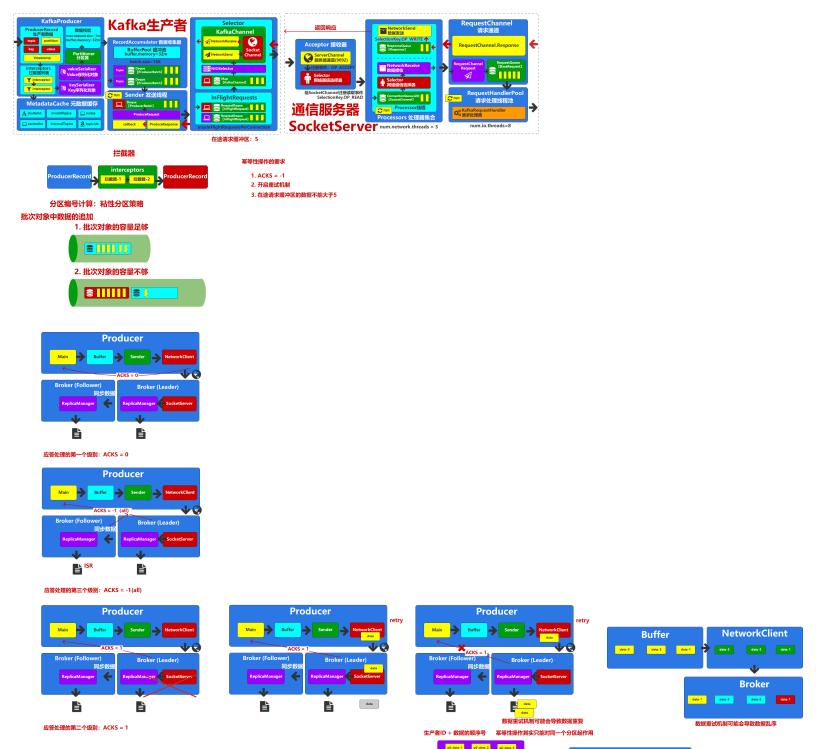








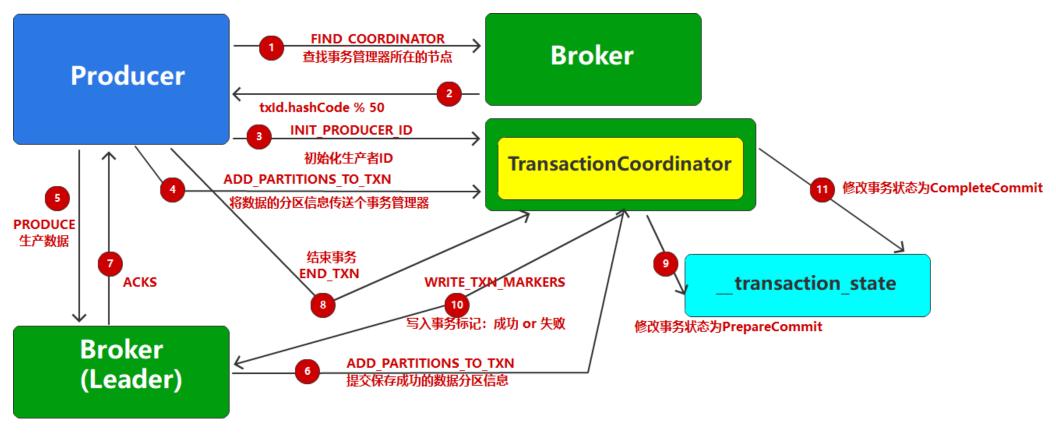


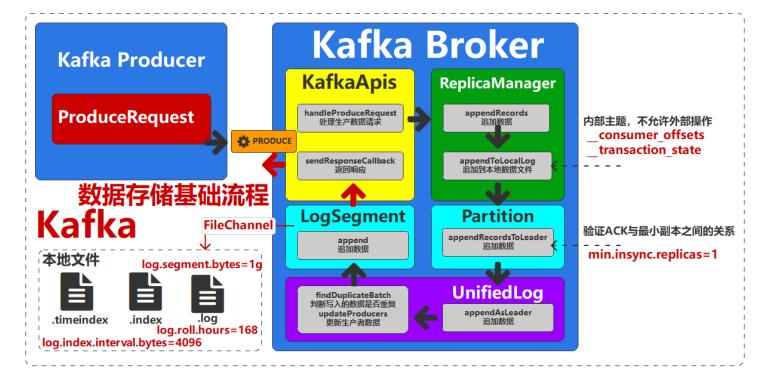


p0-data-3 p0-data-4 p0-data-5 p0-data-6 p0-data-

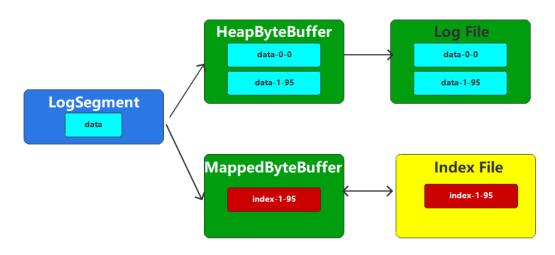
Producer

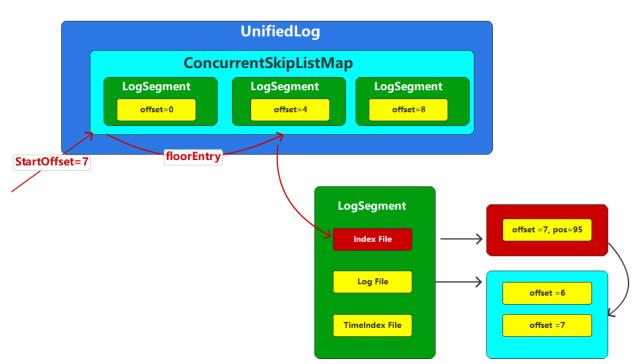
Buffer Sender





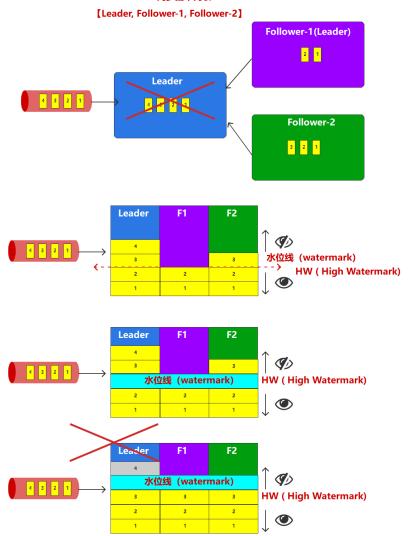
index文件称之为稀疏索引







ISR:同步副本列表



LEO (Log End Offset)

