

# Kafka Cluster

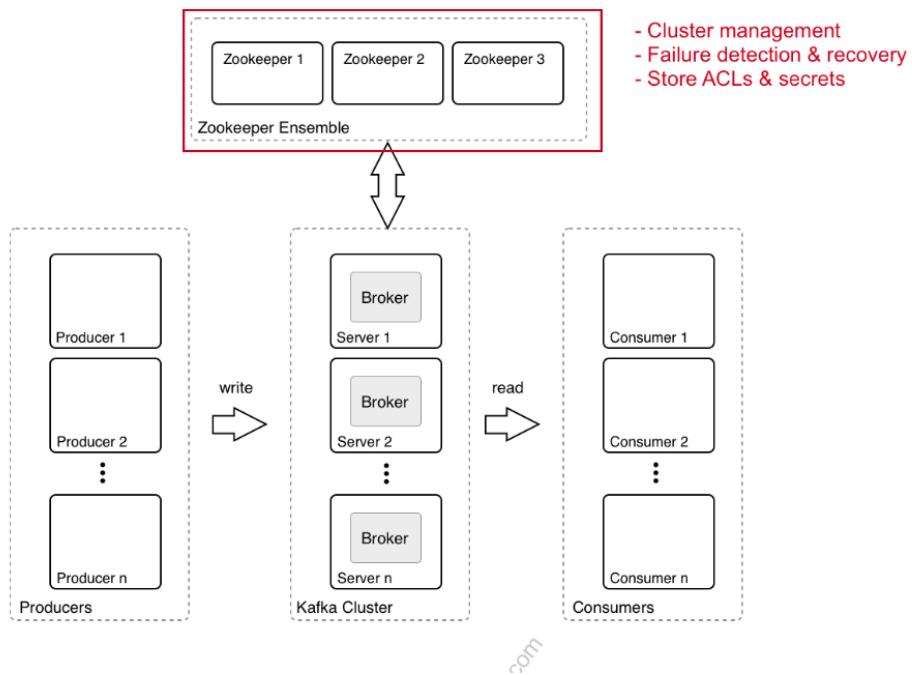
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## ZooKeeper Basics

- **Open Source** Apache Project
- Distributed **Key Value Store**
- Maintains **configuration information**
- Stores **ACLs** and **Secrets**
- Enables highly reliable **distributed coordination**
- Provides **distributed synchronization**
- 3 or 5 servers form an **ensemble**

Kafka Brokers use ZooKeeper for a number of important internal features such as

- Cluster management
  - Failure detection and recovery (e.g. when a broker goes down)
  - To store Access Control Lists (ACLs) used for authorization in the Kafka cluster
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```
zookeeper-server-start.sh etc/kafka/zookeeper.properties  
kafka-server-start.sh etc/kafka/server.properties
```