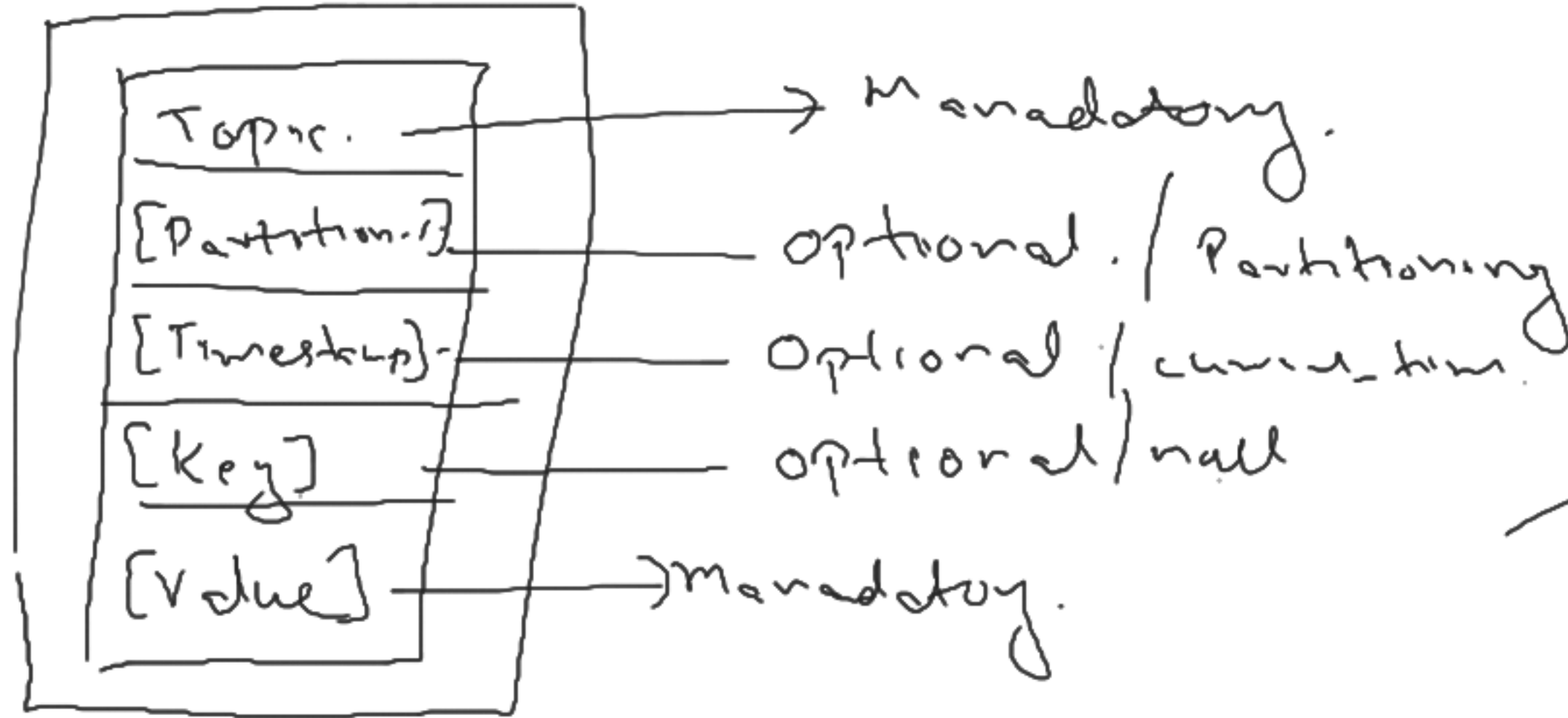


# Kafka Producer - (message/data/record).

## Producer Record.



message value  
← 2 3  
2 4.

① Hash-key Partitioning.

② Round Robin Method

0  
0 0  
0 0 0  
0 0 0

## Value serializer

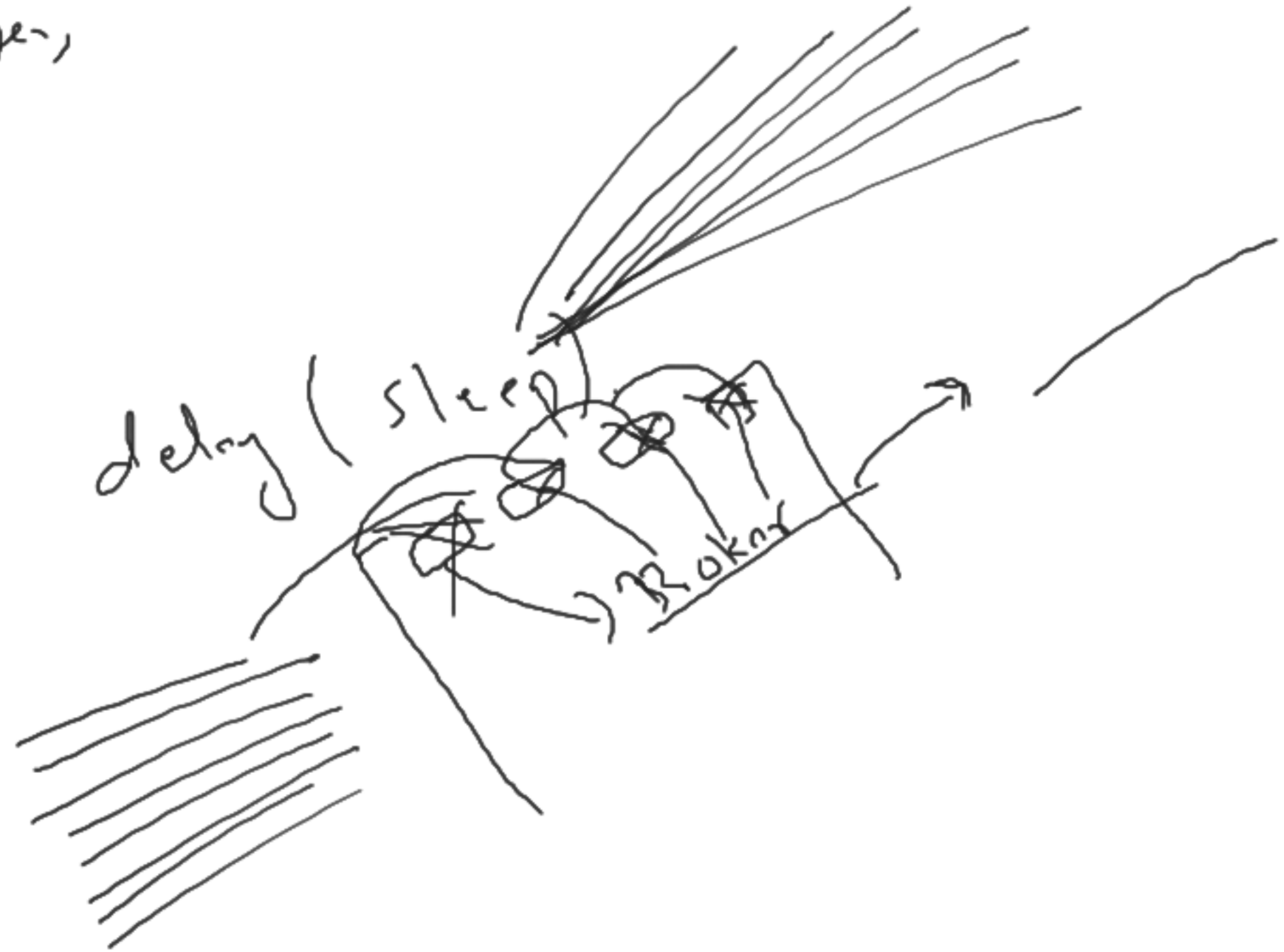
Value (type) string, string writer,  
json, json serializer.  
Avro, Avro serializer.

## Router Message Buffer

- ① Asynchronous
- ② Network Optimisation

32MB  
buffer memory.

## Key serializer



- ① No, kafka doesn't master-slave. (leader-follower Arch).  
② Zookeeper.



Coordinator - If a broker dies, who will perform the task.

active nodes - Zookeeper - (list of active nodes)  
/ broker/ids.

controller - broker -) extra responsibility. (leader/controller)  
① work-load.

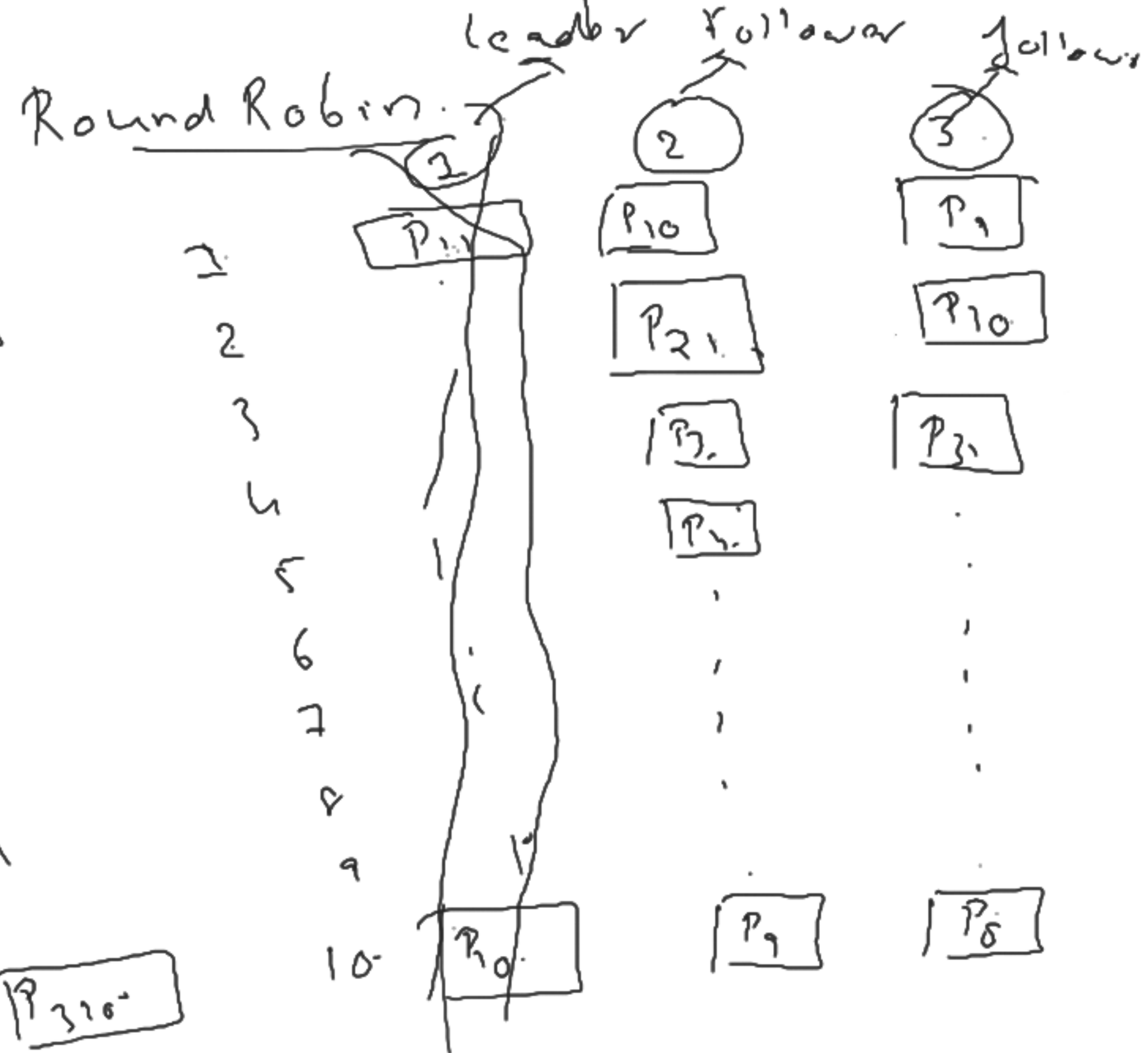
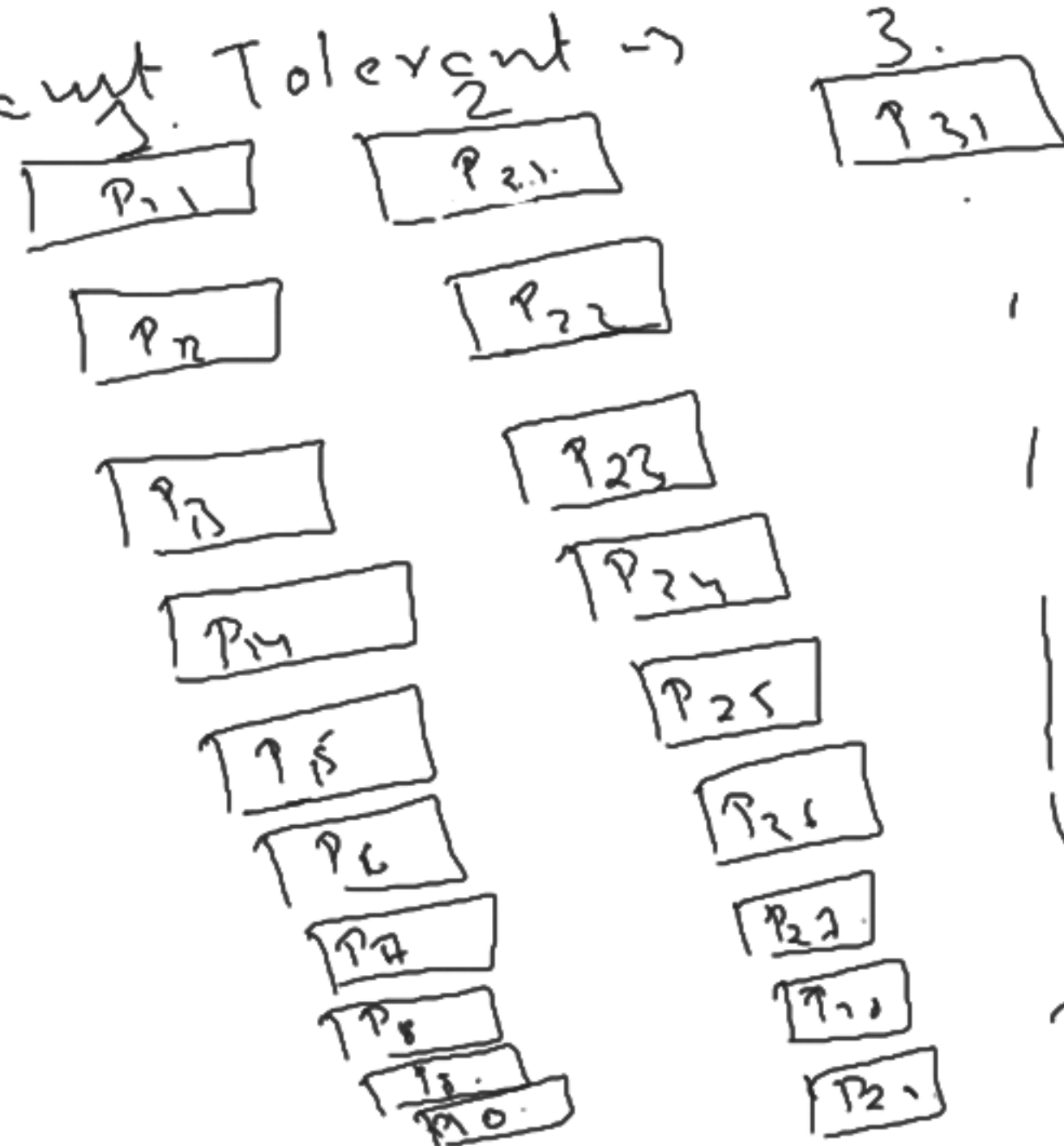
get / controller.

Fault Tolerance - replication factor - 3.

Independent partitioning

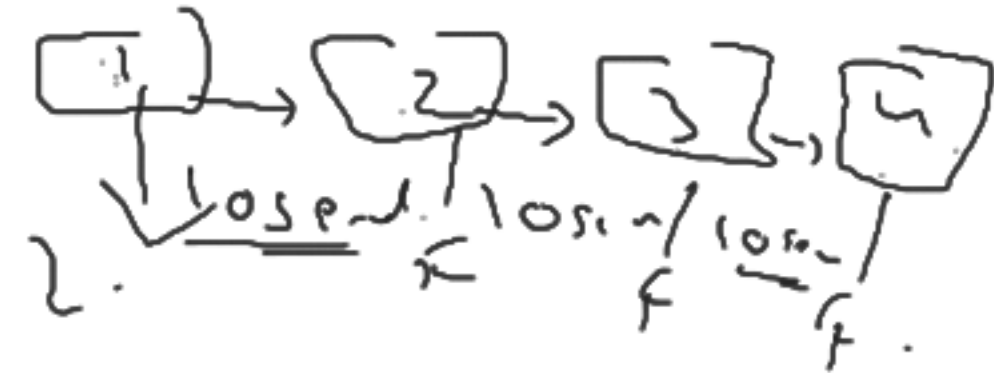
① Even Distributed  $\rightarrow$

② Fault Tolerant  $\rightarrow$



# Leader Vs Follower.

① Leader Partition - Leader Activity → Read and write  
② Follower Partition - Follower Activity → Interaction



ISR - (In sync replicas). (full group).

min. in sync replicas (2 in sync).

① ~~Turn to~~ → Emerging in Group

② Attacker.

③ LA.

Leader

④ D10.

⑤ Plan

⑥

10 replicas.

① Kafka brokers → Secured.

③ → DC.

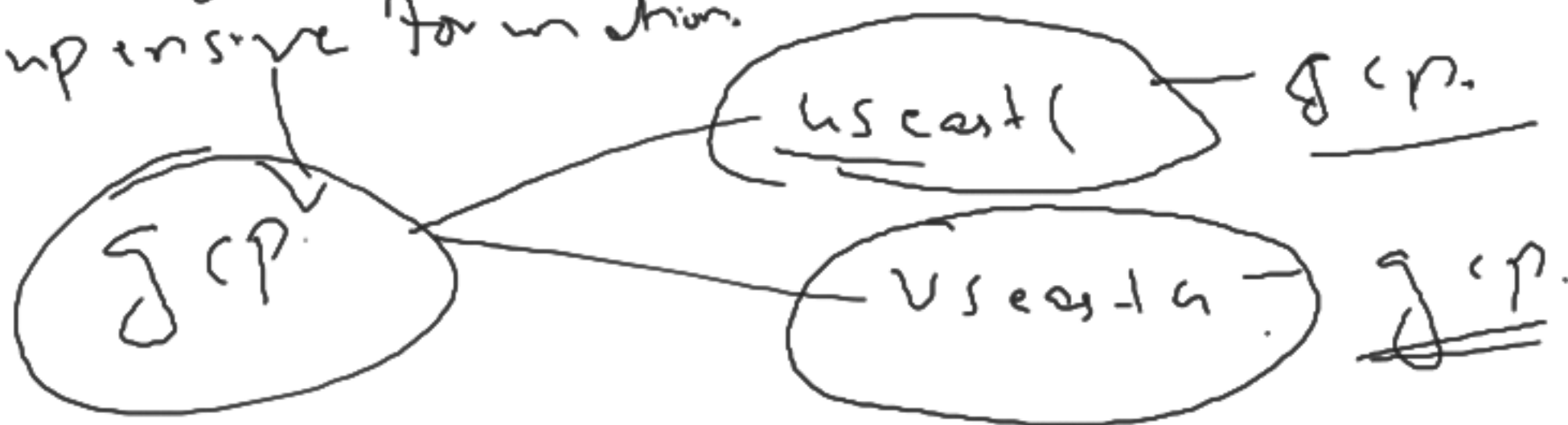
End Asia.

2 - DC.

~~5 - DC.~~

Amazon (mumbai) (Hyderabad) / ① Mumbai 1-a 0365  
② \_\_\_\_\_

expensive formation.



- India,

① Azure  
Secured data center.

Banking operation / sensitive.

GCP (Data Engineer)

(localhost: 9092)

Kafka

- ① Kerberos Authentication
- ② SCRAM Authentication

① Levops with cloud technologies

Microservices.

(Docker images)

Container

Secured

Key

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