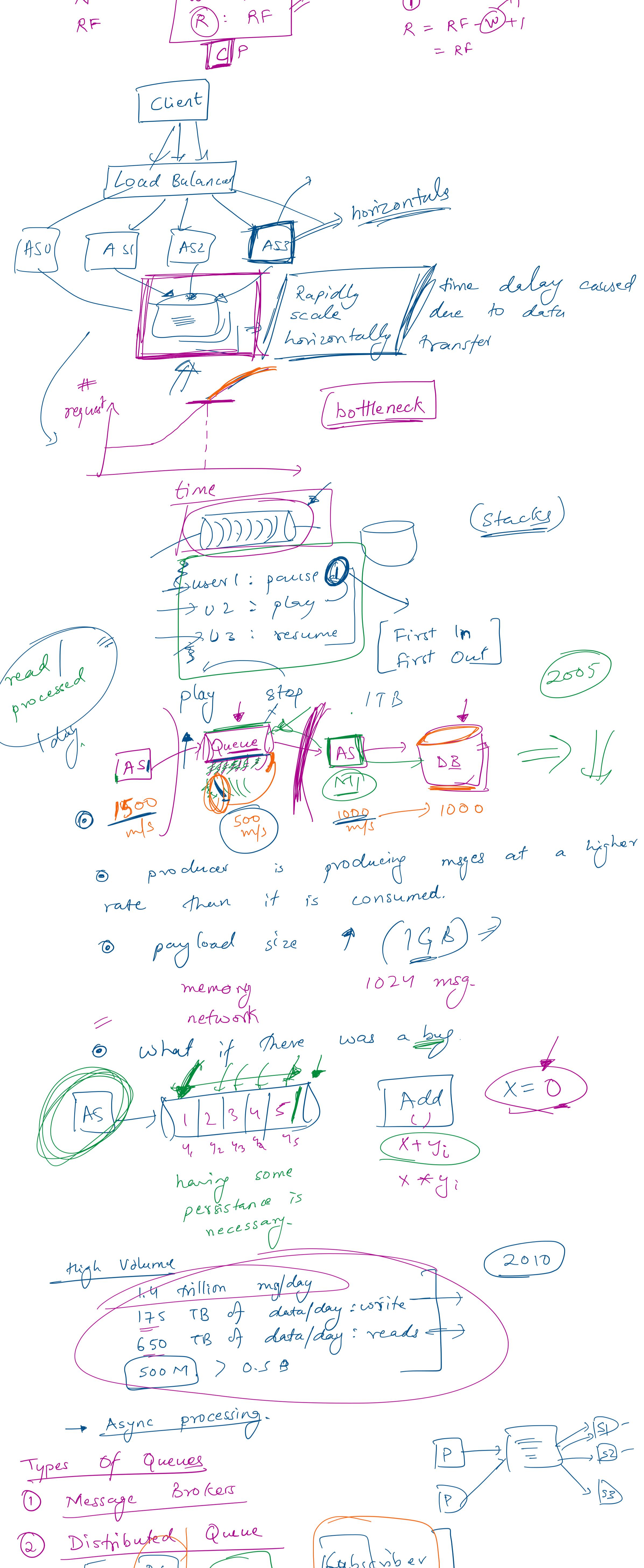


# Queuing Systems

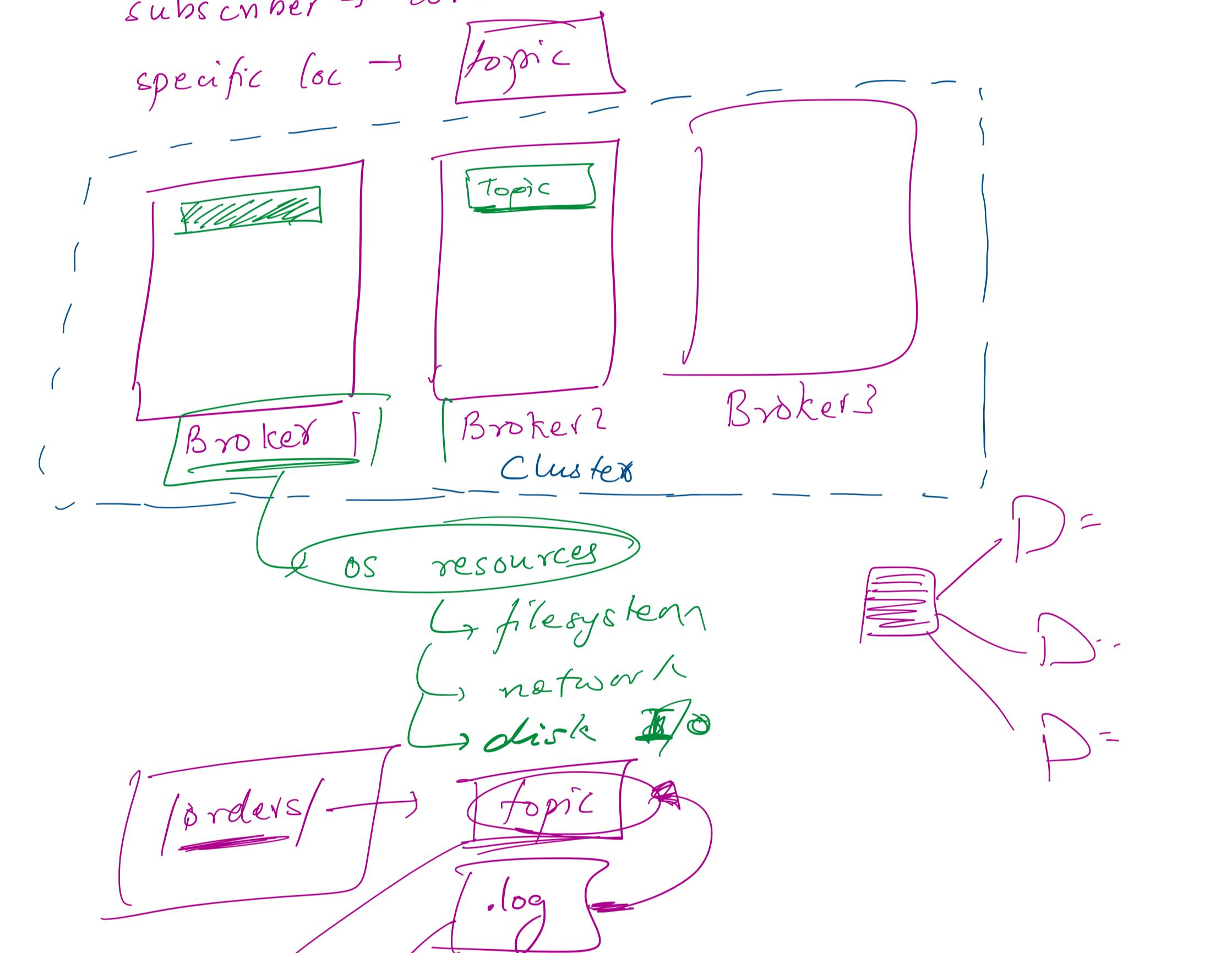
Thursday, 25 March 2021 9:02 PM

- ① User click events



- ② producer is producing msgs at a higher rate than it is consumed.
- ③ payload size ↑ (1 GB) → memory network

- ④ what if there was a bug.  
AS → [1 2 3 4 5] → Add ( )  
X = 0  
 $X + Y_i$   
 $X \neq Y_i$

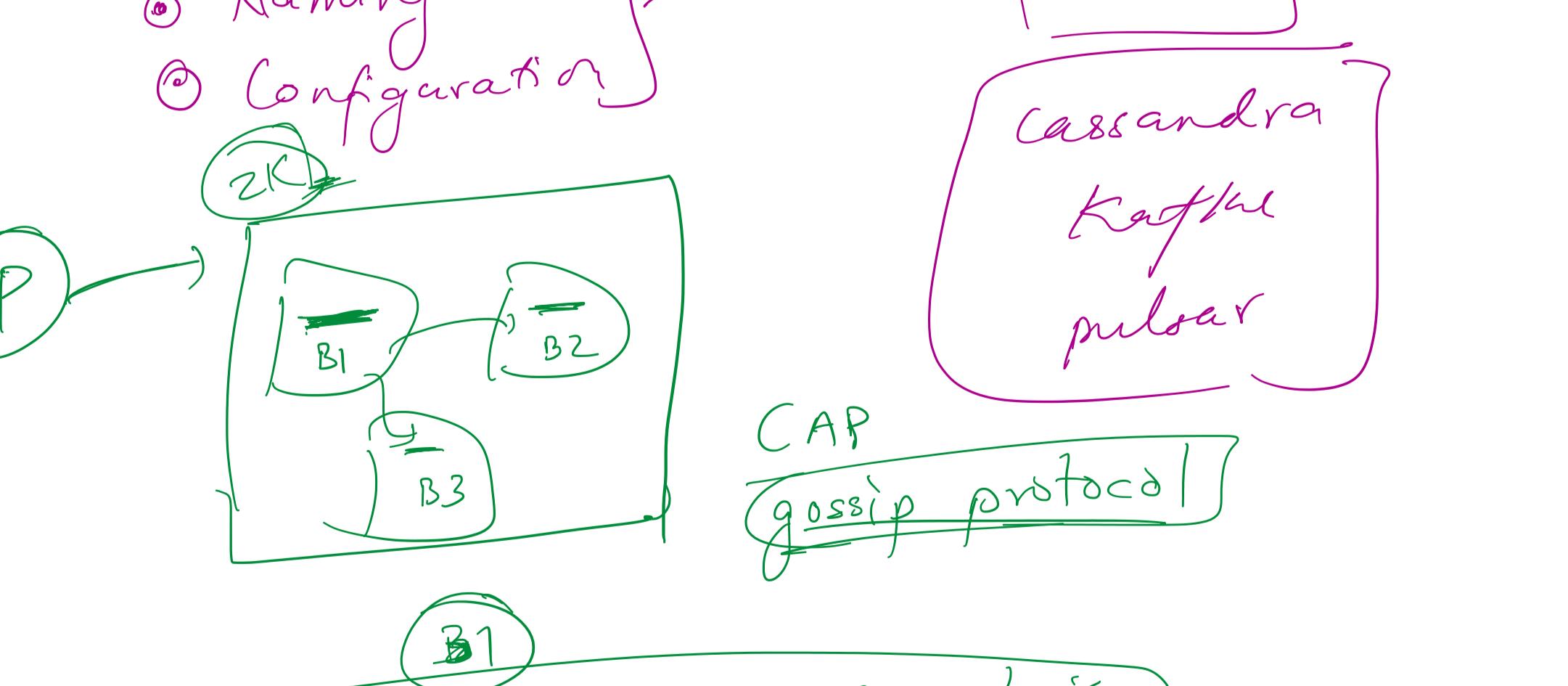
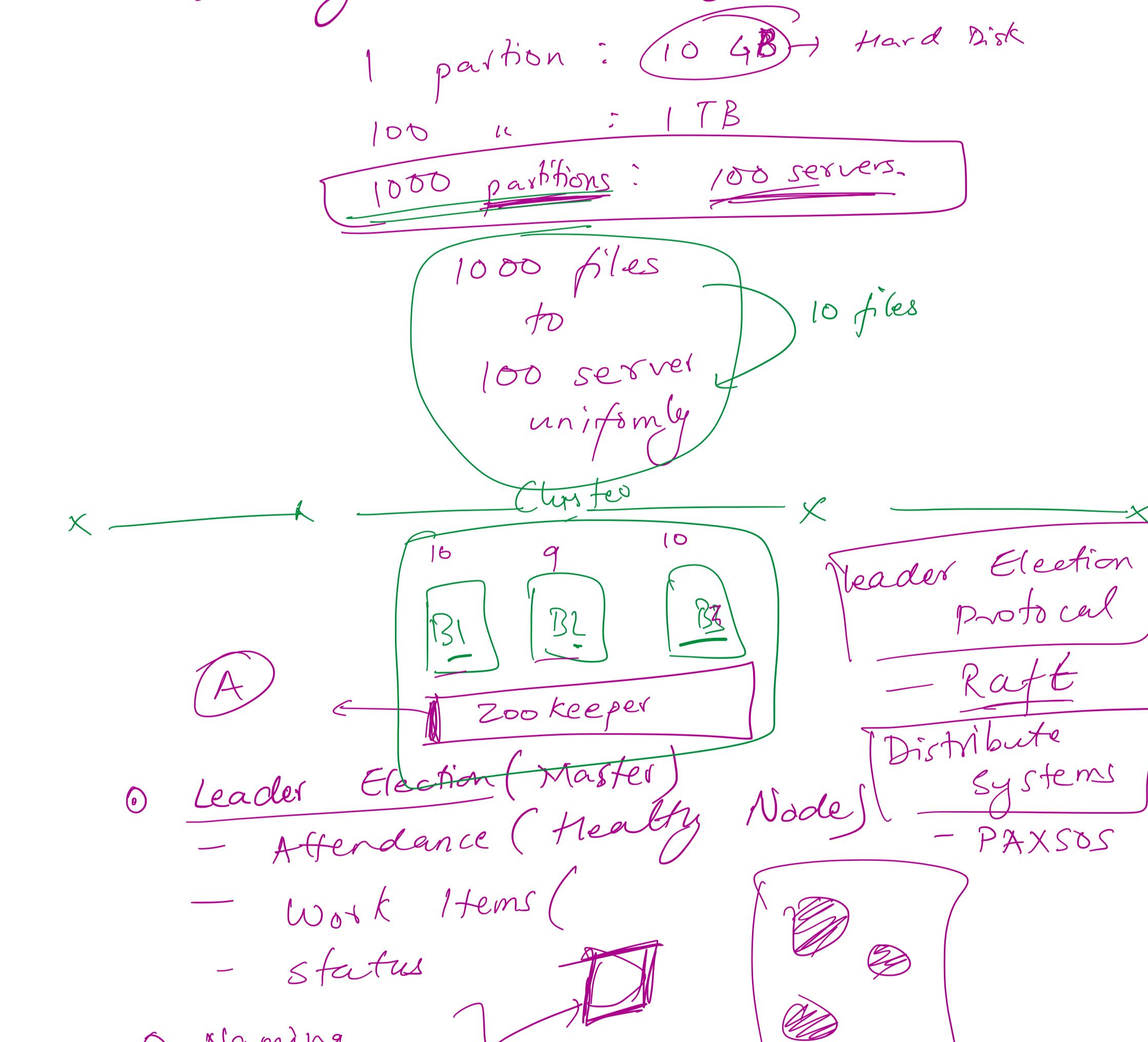


## Types of Queues

### ① Message Brokers



### ② Distributed Queue



- ③ CAP (gossip protocol)

- ④ ordering = FIFO

- ⑤ ordering is not guaranteed. for partitioned topic.

- ⑥ 1, 2, 3, 4 → 4, 1, 2, 6