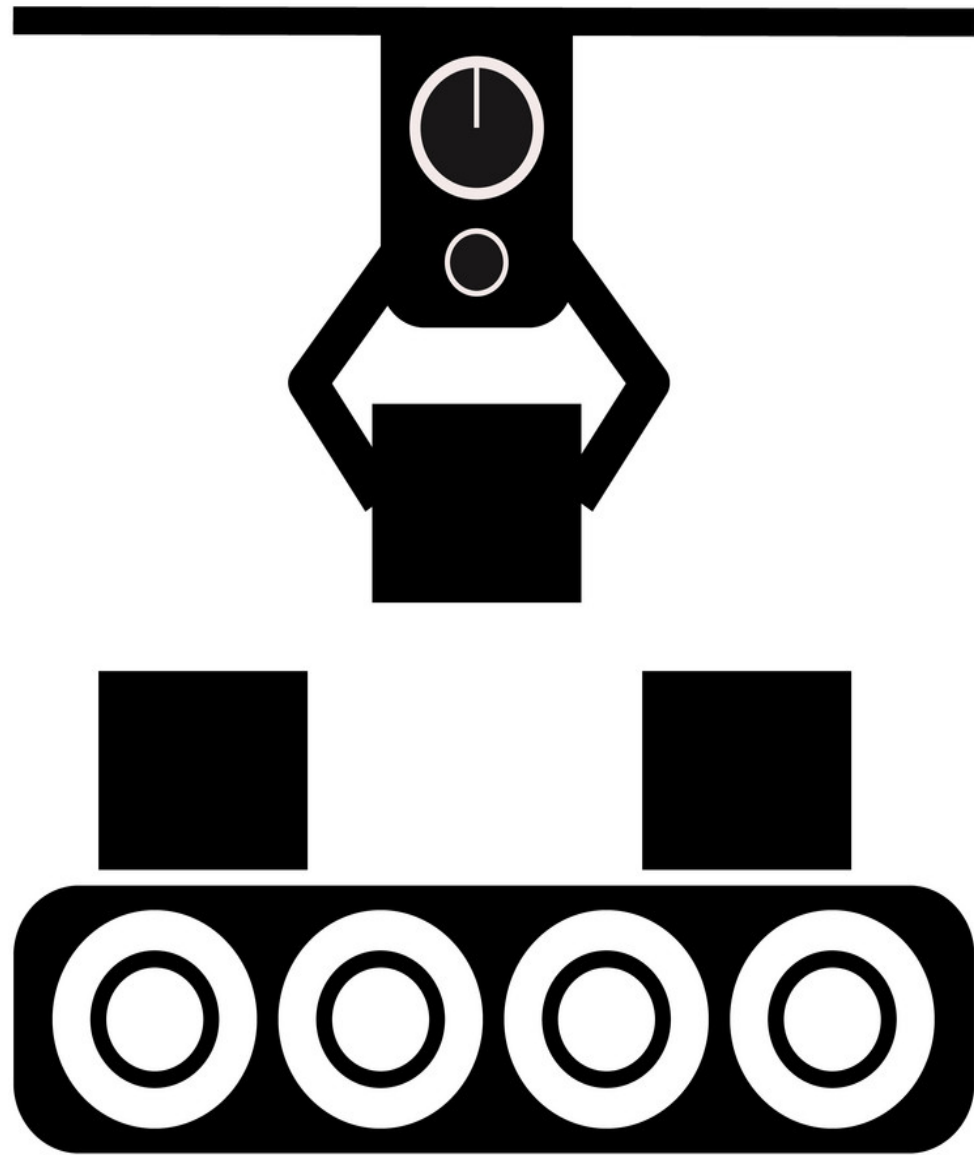


Data Infra Engineer

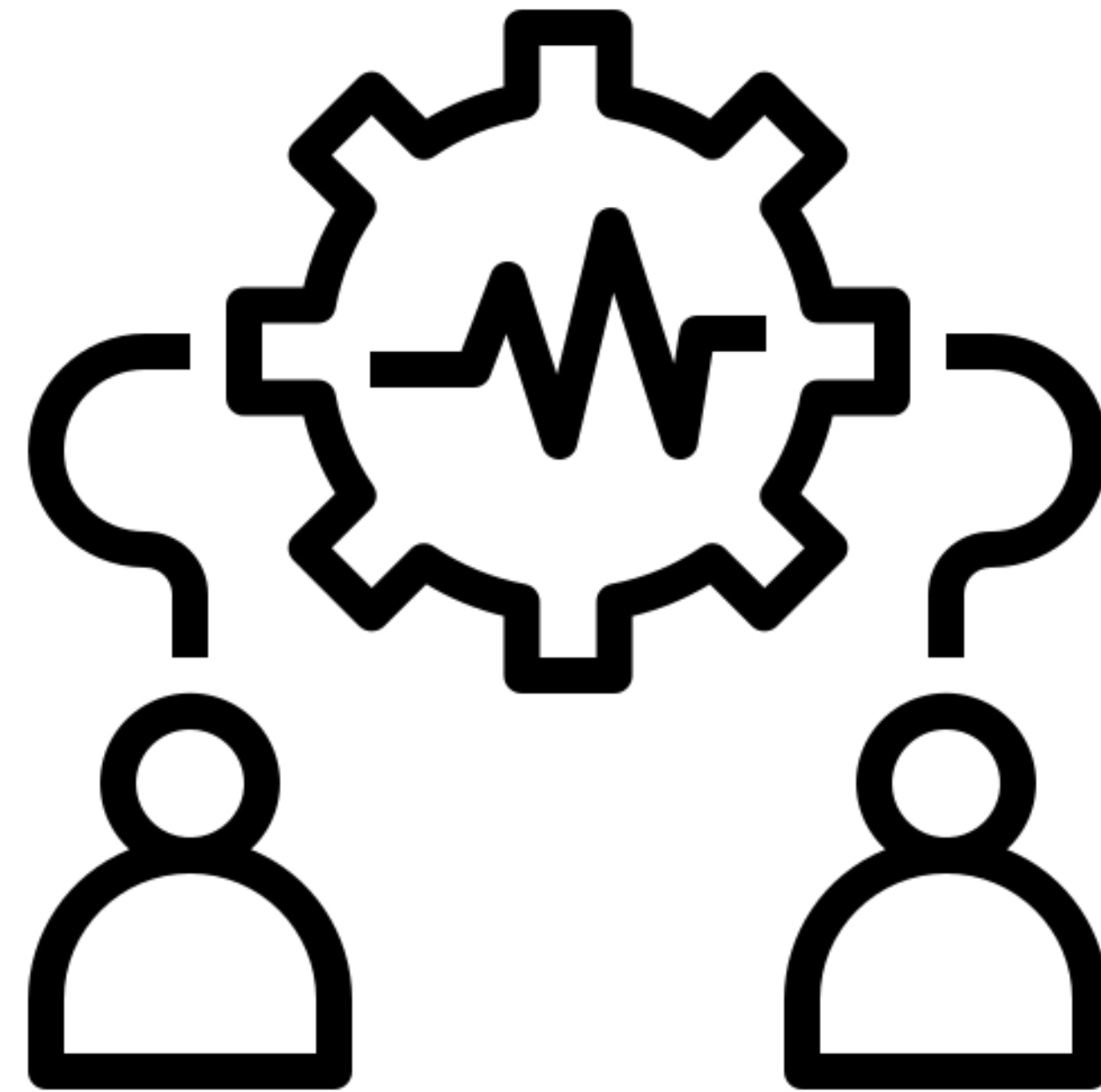
Jim Shih

handover time: 7/4/2024

Use Cases

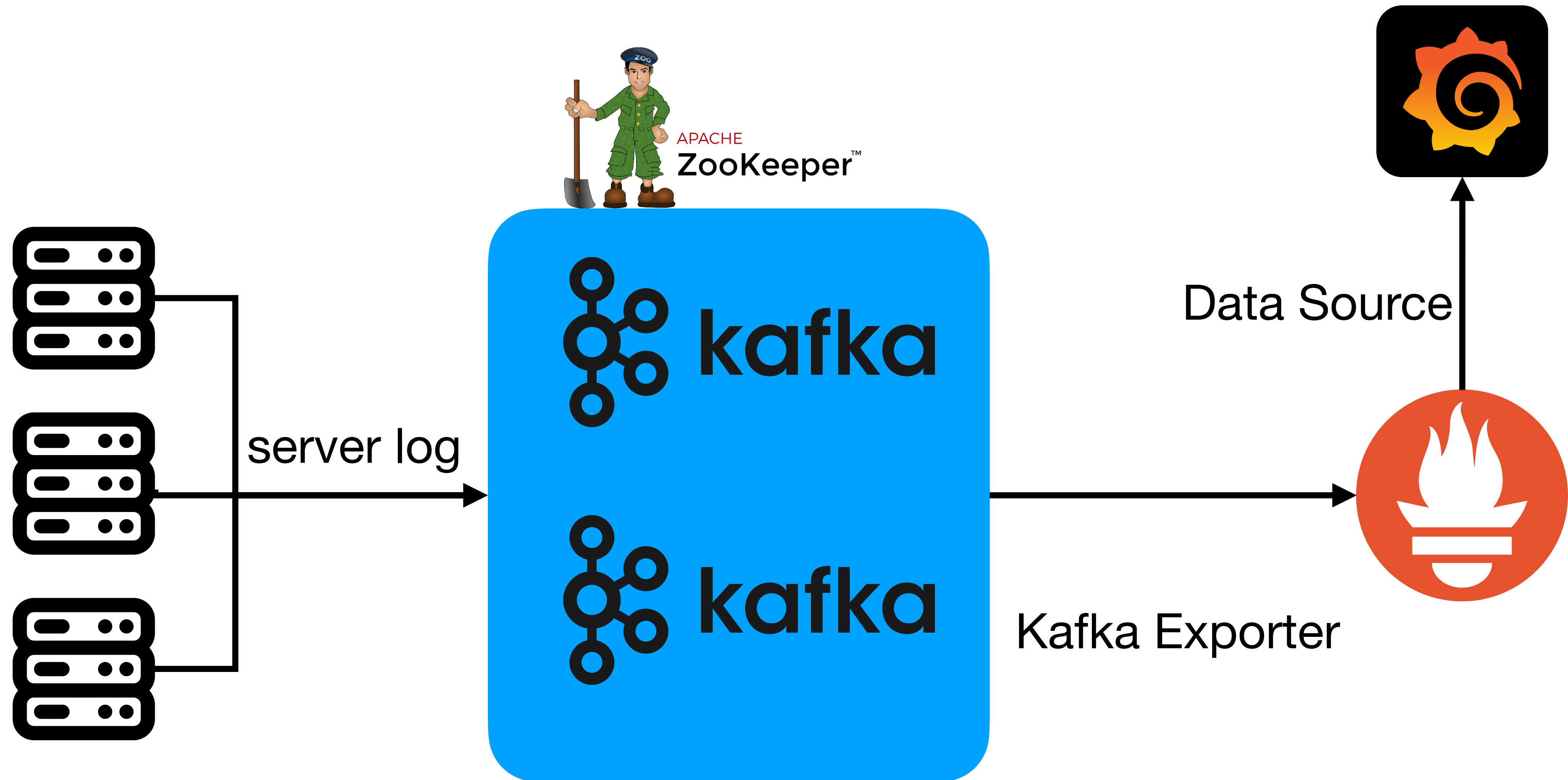


IoT Data Ingestion



User Activity Recording

Architecture Overview



Monitoring Dashboard

Number of alive brokers

- Check the broker numbers while adding or removing

Under Replicated Partition

- While adding/removing brokers some of the partition may not usable



Monitoring Dashboard

Partition per Topic

- knowing how many partitions in the topic



Monitoring Dashboard

Message in per min, per second

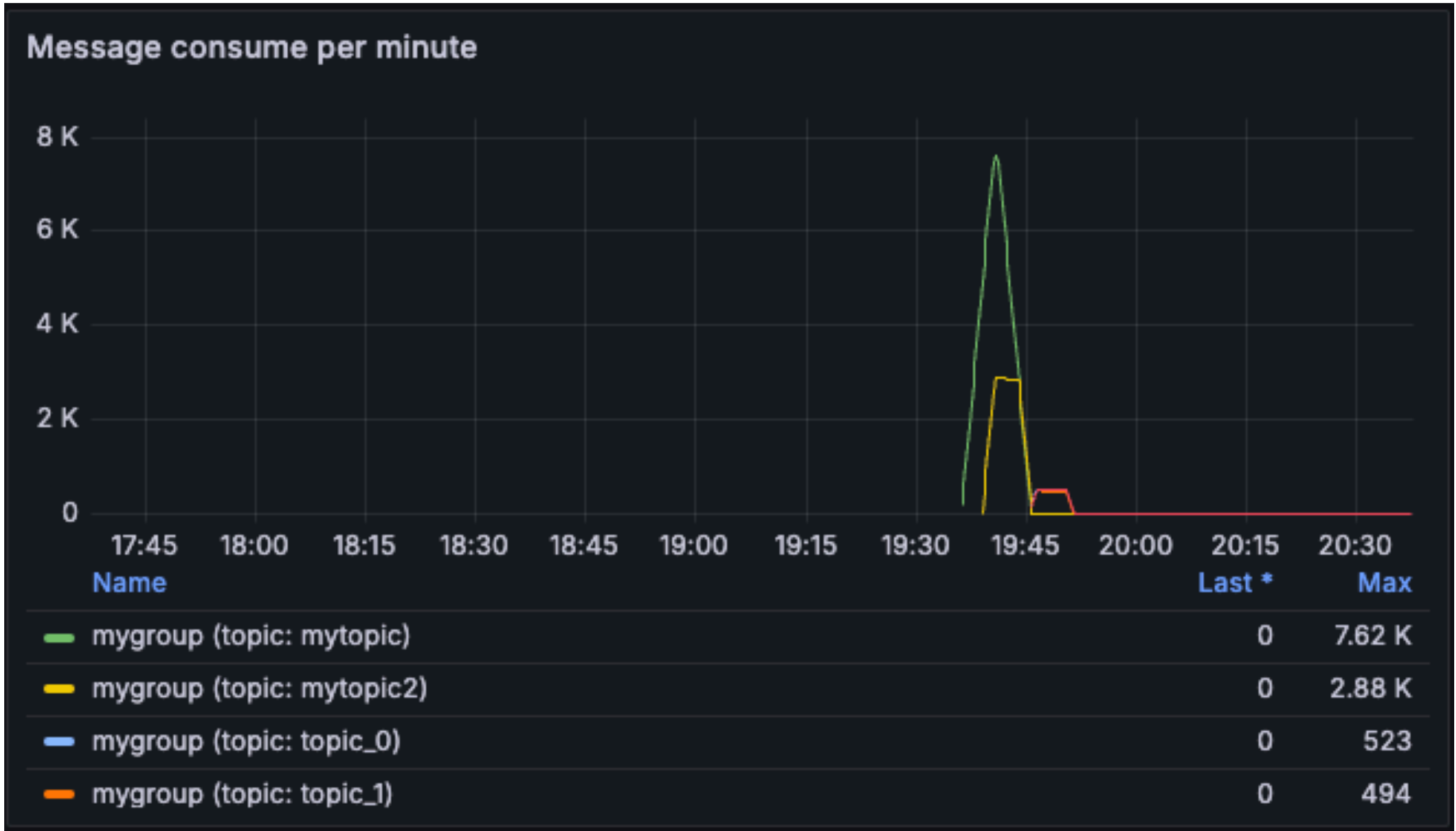
- Monitoring how many data produced into the topic



Monitoring Dashboard

Message consumed per min

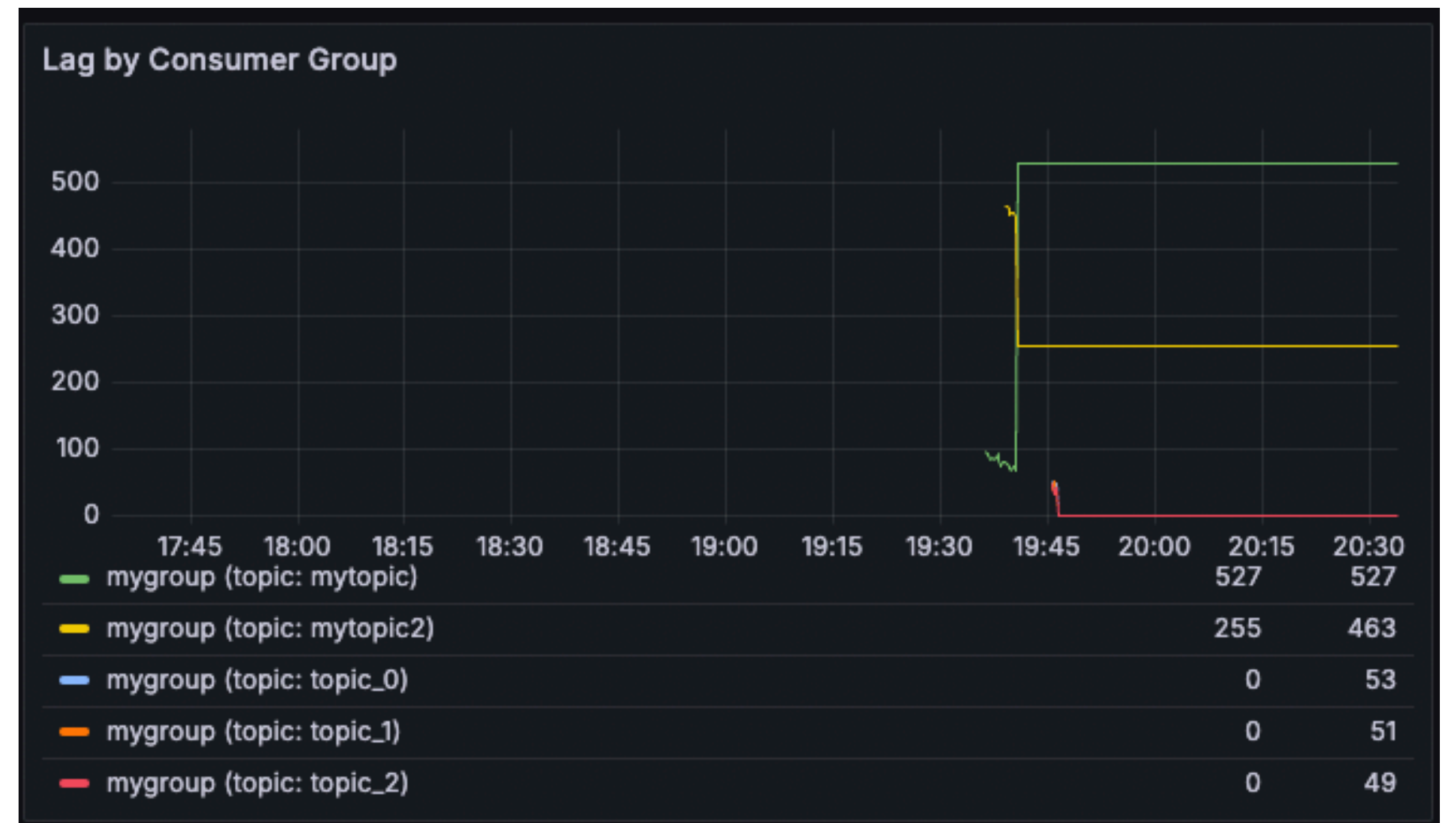
- Monitoring how many data consumed into the topic



Monitoring Dashboard

Lag by Consumer Group

- this metric shows how many data stacked in the kafka topic but not yet consumed, which will be flushed after a configured time



Monitoring Dashboard

Partition Consumer Balancing

- Monitoring the partition/consumer balancing rate to ensure optimal partition configuration.
- Imbalance in consumer groups can lead to higher unavailability during failures due to longer leader election.

