IOPS

- In-memory RocksDB instance very heavy on disk IOPS (even when stream is "idling")

- Most standard AWS instances not provisioned for IOPS

- Difficult to debug: stream appears to run fine for a few hours while they chew through instances IOPS burst balance, and then come to a crippling halt

- Tip: find a way to measure IOPS (can be tricky depending on cloud provider/abstractions, eg ECS/Fargate/Kubernetes)

- If using ECS/Kubernetes — make sure each instance has their own dedicated disk to avoid noisy neighbours

Off-heap memory (pre Kafka ~2.2)

- RocksDB in-memory cache lives outside of the JVM's own heap

- Has potential to grow unbounded

  - In our case, could grow up to 13gb!

- Difficult to debug: JMX metrics, dockerized environments, etc

- Solution: **rocksdb.config.setter, -XX:MaxRAMPercentage**