[Kafka](https://kafka.apache.org/" \t "_blank) is an open-source event streaming platform, used for publishing and processing events at high-throughput. There are a lot of popular libraries for Go in order to interface with Kafka.

1. Apache Kafka is capable of handling millions of data or messages per second.
2. Apache Kafka works as a mediator between the source system and the target system. Thus, the source system (producer) data is sent to the Apache Kafka, where it decouples the data, and the target system (consumer) consumes the data from Kafka.
3. Apache Kafka is having extremely high performance, i.e., it has really low latency value less than 10ms which proves it as a well-versed software.
4. Apache Kafka has a resilient architecture which has resolved unusual complications in data sharing.

We are using apache Kafka to demonstrate what it can do specially how you can make service high available

We are mimcing like a real use case secenrio we are mimicking an tradeing exchange that has a gateway that receive msgs or order from client and that gateway is going to communicate with the microservice (order processor which will basically take the order and will process it and then it will store or put it back on the another queue

What happens if order processor goes down by using kafka still allows order placer or client to place the order without any issue although the order processor is completely broken but thanks to kafka that it will queue these msgs or orders and when the order processor comes back up it can resume from the latest msgs it cosumed \

So nothing wil be delayed there will be a tiny little delay due to some technical issue but people will not feel it

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