

a simple, high performance open source messaging system for cloud native applications, IoT messaging, and microservices architectures

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What is NATS?



Copy-paste from website:

"a simple, high performance open source messaging system for cloud native applications, IoT messaging, and microservices architectures"

Translation with less buzzwords:

a message queue/pubsub comparable to RabbitMQ or Kafka.

NATS vs NATS Streaming



NATS comes in two flavors

- NATS
 - Simple
 - at-most-once delivery
 - PubSub, queuing and request/reply
- NATS Streaming
 - Persistence of messages and subject names (enables replay)
 - at-least-once delivery (acknowledgements)
 - Rate limiting

- NATS Streaming is built on top of NATS
- Both have HA capabilities and are very easy to operate on kubernetes
- I will do a demo of NATS (not streaming)

Demo time



- Chat application
 - Vue frontend
 - Go backend
 - Websocket for sending chat messages back and forth between the backend and frontend clients





Problem:

We cannot scale the backend because clients connecting to different backends won't see each others' messages.

Solution:

Send messages through a NATS pubsub which will ensure that all backends see all messages.

Code: https://github.com/blacksails/nchats

Questions?

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