



# Synadia/NATS Sweet Spots

## Characteristics

- **Lightweight, embeddable and low latency** messaging
- **Subject based** publish/subscribe and Request/Reply
- Simple and **developer-friendly**
- Extremely **fast** and **scalable**
- **Queuing** and **streaming** with built-in **high-availability**
- Scales from the **edge** to the **Cloud**
- **Self Clustered**

## Usage

- NATS is an all in one messaging middleware covering a range of features, which would require a set of specialized applications.
  - Fast non persistent messaging scaling to millions of msgs/s
  - Jetstream HA streaming and queuing
  - Key/Value store
  - Object Store
  - Self routed topologies (meshing)
  - Clustered with fast failover
  - Service deployment (workloads)
- The common Cloud or Edge deployed application will need **'Nothing but NATS'** to satisfy it's communication and state management needs.

## Replace REST service infrastructure

- No LBS
- No Directories
- aso ..

## Clustering and Scaling

- Self clustering

## Edge Ready

- **Small** (~16MB), **embeddable** binary which runs on any device.
- Leaf node

## Enterprise Ready

- SCP
- Strong authentication
- Encryption at rest
- TPM support

## Scalable

- Scale cluster
- Scale superclusters geographically
- Scale horizontally with leaf cluster

## Clustering and Scaling

- Self clustering

