



DBMAGIC

A REST LAYER FOR MEMSQL

A HIGH SPEED, EASY TO USE,
ASYNCHRONOUS SOLUTION FOR
DATABASE APIS

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ABOUT TEKMONKS

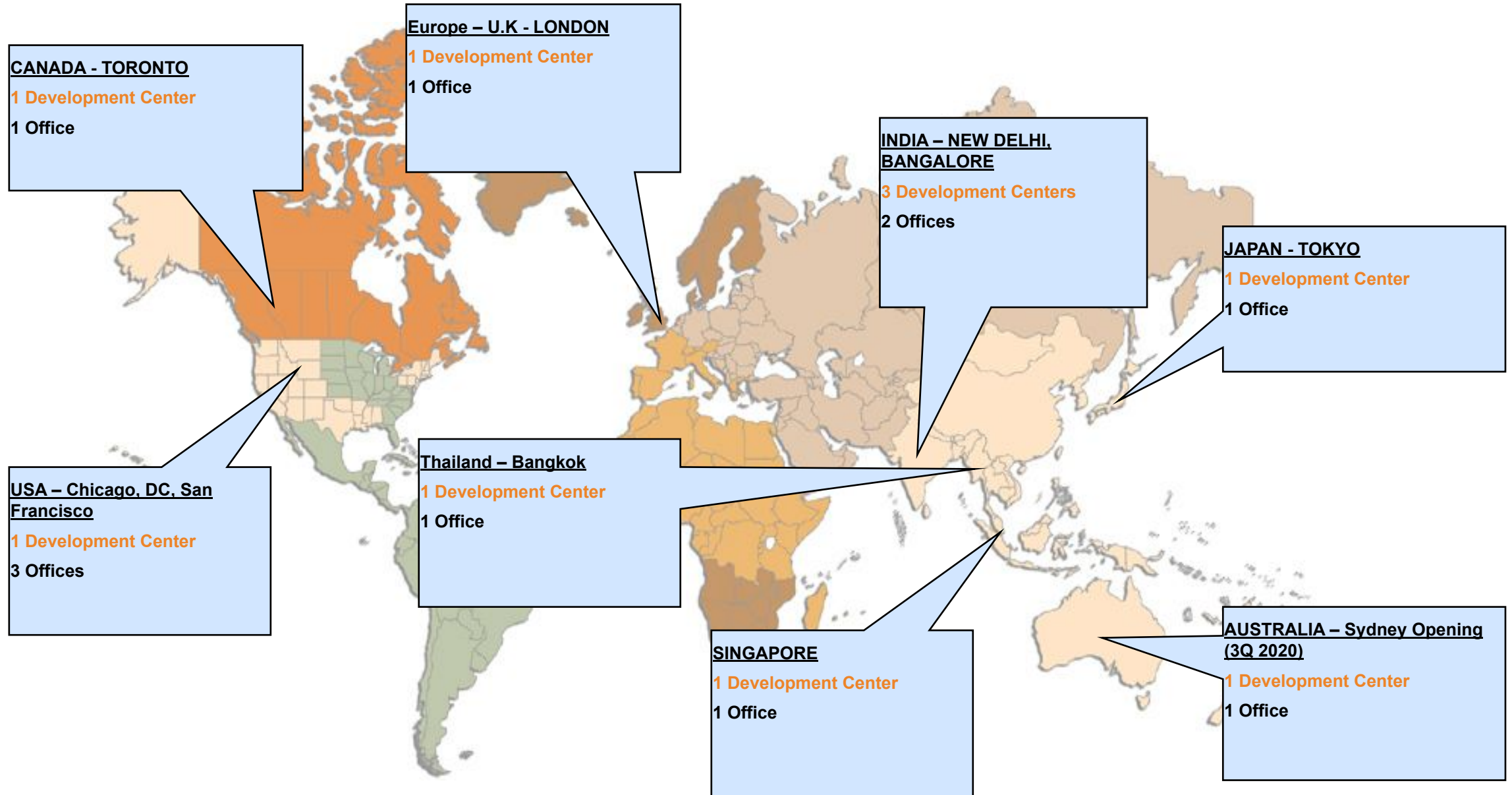
- A full service, fast growing, and highly skilled technology firm.
- US founded and headquartered in Washington DC
- Work with largest Fortune 500 companies worldwide
- Zero debt company with a de-risked operating model, maintaining two years of operating cash reserves.
- 98% rate of repeat business, history of success and satisfied clients.
- ISO 9001:2015 QMS certified
- Strong partnerships with AWS, Azure, Microsoft, IBM etc.



Vision Statement

To be a reputable Global Corporation providing quality solutions for business issues using technology and highly skilled people.

TekMonks Operates from 7 Countries, 8 Major Cities



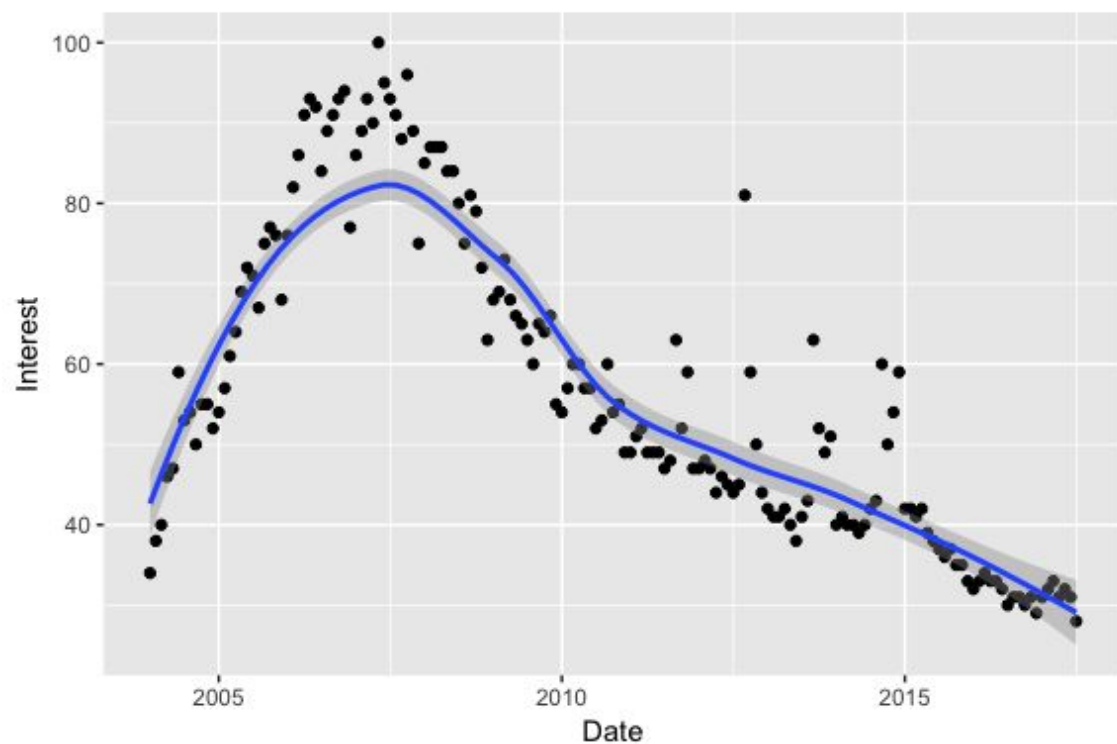
MAIN DBMAGIC FEATURES

- REST Layer for MemSQL RDBMS
- Zero install deployment – configure via REST APIs
- Out of the box support for MemSQL
- Full CRUD Support – without any configuration
- Support for complex SQL queries
- Geo dispersed cache and REST clustering support
- Support for all REST standards
 - API Keys
 - HTTPS for secure transport
 - JWT Tokens
 - Rate limiting

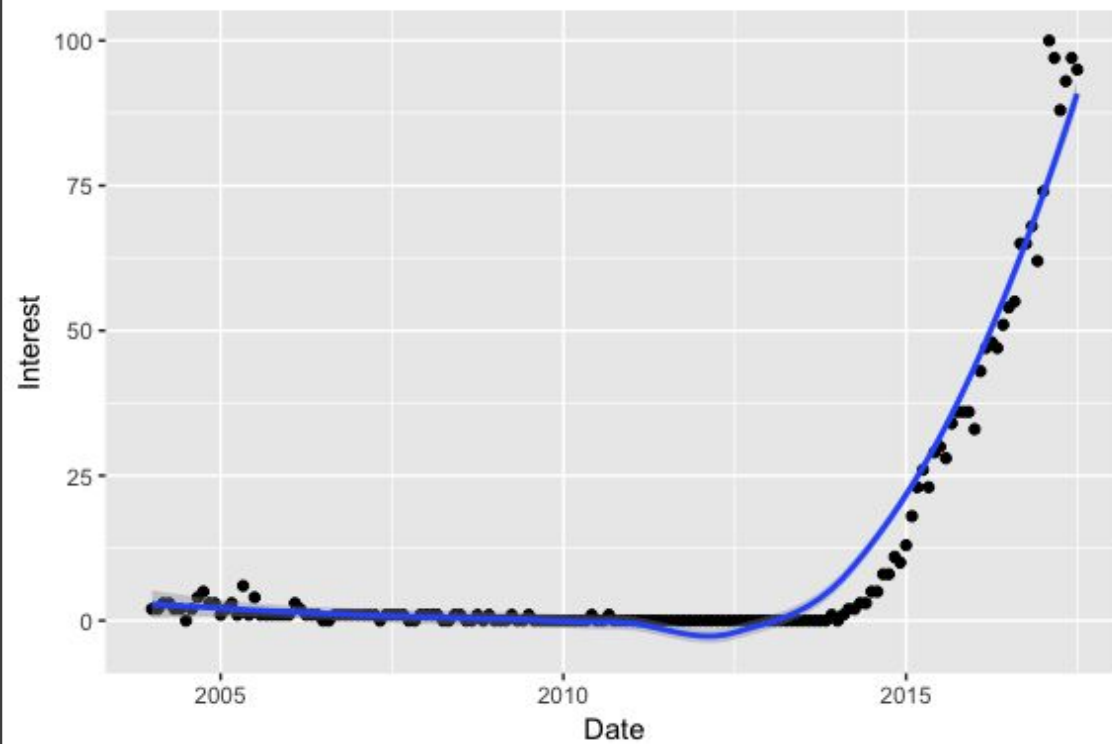
COMPETITION

- Oracle
 - Oracle REST Data Services – ORDS
 - <https://www.oracle.com/database/technologies/appdev/rest.html>
 - CRUD and custom queries
- PostgreSQL
 - PostgreSQL Restful API – PostgREST
 - <https://www.postgresql.org/about/news/postgresql-restful-api-1616/>
 - CRUD and custom queries
- MySQL
 - MySQL Router 8.0
 - <https://dev.mysql.com/doc/mysql-router/8.0/en/mysql-router-general.html>
 - Admin APIs only
- AWS RDS
 - Aurora Serverless Data API
 - <https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/data-api.html>
 - CRUD and custom queries
- Google Cloud SQL
 - REST API for Admin Only
 - <https://cloud.google.com/sql/docs/mysql/apis>

Google Trends: SOA



Google Trends: Microservices

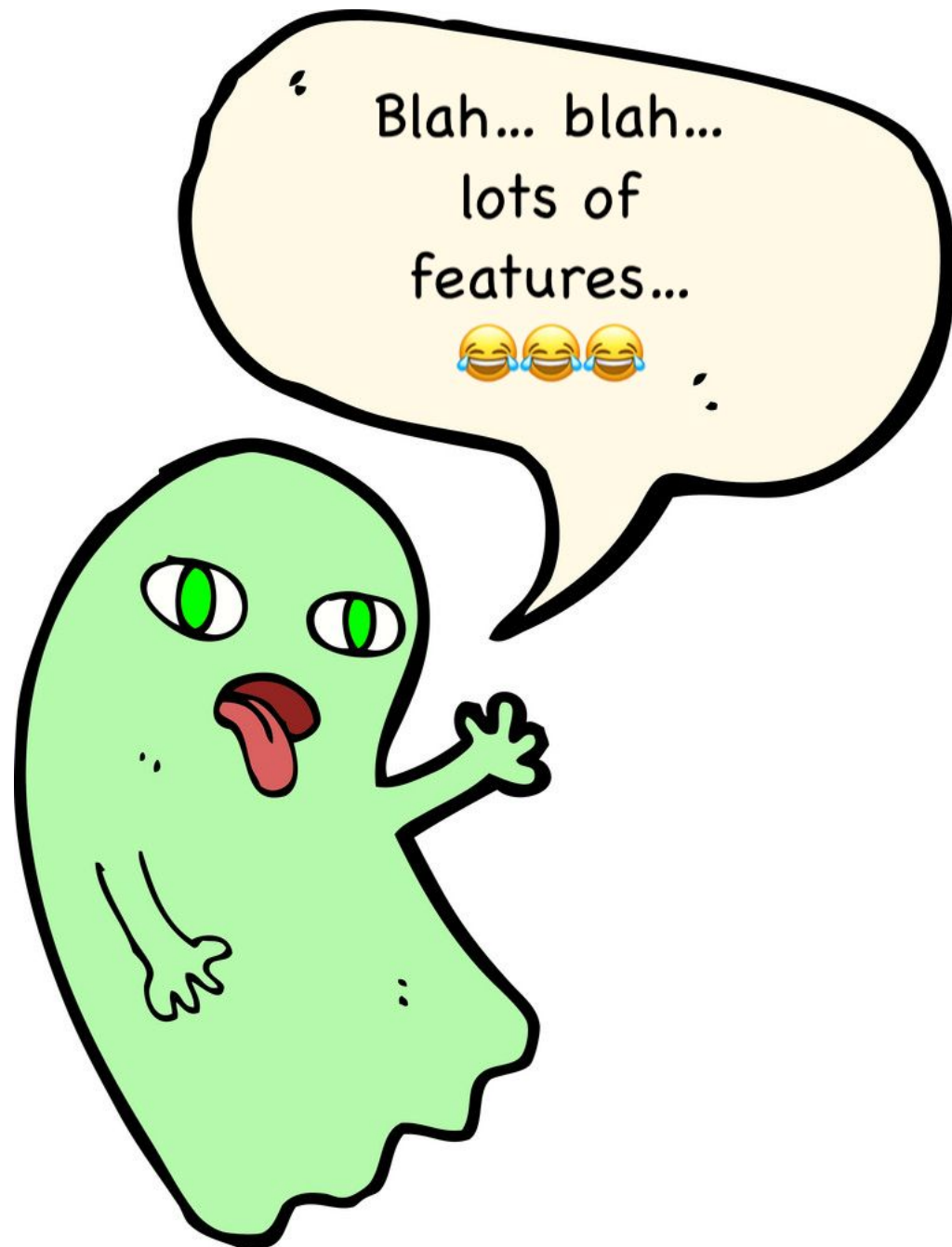


THE SOLUTION MESSAGE DRIVEN API SERVICE BUS

API based business integration and real time data exchange is now the norm

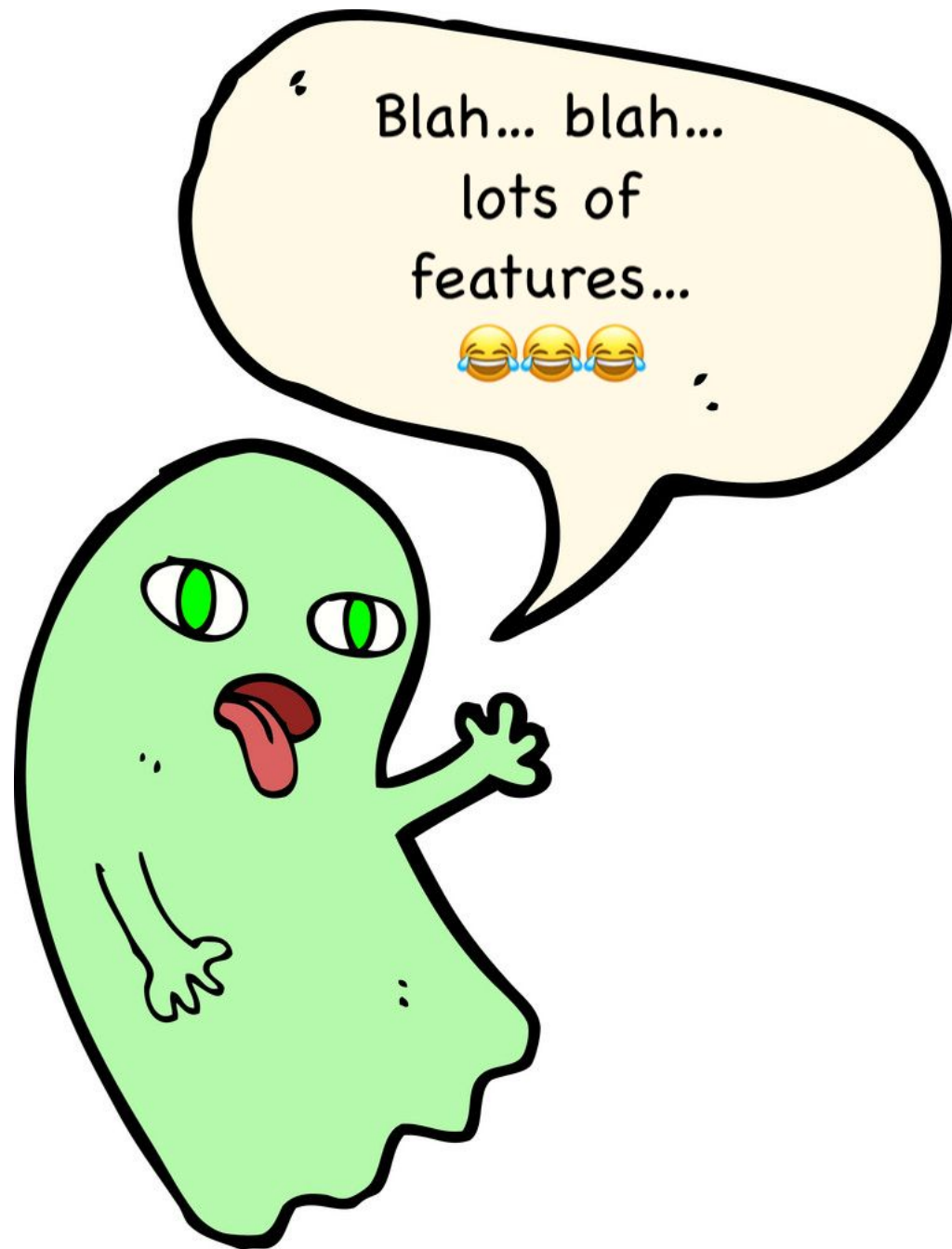
- We are living in a "data and message first" world of REST APIs. Businesses need a lightweight, high performance, asynchronous, API Based Integration platform.
- TekMonks **ASB** is the first, and so far, the **only**, API Integration Bus, built specifically for modern API based applications and API economy.





ASB Can Easily...

- Built for streaming messages and flows
 - API enable partner endpoints to existing Enterprise systems
 - Orchestrate and connect APIs to each other, enabling information to flow
 - Convert existing systems and data to API Endpoints exposed to internal and external partners
 - Compose new APIs by orchestrating existing APIs
 - Secure API endpoints with encrypted JSON, and API keys
-
- ASB is Asynchronous, message and event driven, not based on waterfall like flow models.
 - Message based data flows as a foundation for (near) real-time and also batch processing
 - In the past, everything was built on data stores (data at rest), making it impossible to build flexible, agile services to act on data while it is relevant.
 - Act as the central asynchronous bus for events between any number of sources and sinks.



- A bus built by design for zero downtime, handling the failure of services and nodes and networks and rolling upgrades.
- Proven capability to process millions of messages an hour, using only 2 cores and with minimal memory requirements due to the asynchronous I/O and lightweight JSON architecture of the bus.
- Transform data and events from any format to JSON / APIs.
 - Connect anything: programming language, APIs like REST, open standards, proprietary tools and legacy applications.
- Message based routing implies data is processed when it is available by applications which can use it to drive business processes forward.

Future Proof: Built for futuristic AI Based applications, which need to moving large amounts of data and events for machine learning and AI processing engines.

ASB BENEFITS

WE ♥ YOU

Flexibility Flexibility that scales from API microservices exposed by partners, to multi-gigabytes of data produced by batch jobs

Message Driven Flows APIs use Request/Response model and are messaging endpoints. ASB is designed ground up for routing, transforming and orchestrating such messages, thereby transforming old systems into modern API endpoints.

Independent and decoupled business microservice APIs The APIs are managed as products, with their own lifecycle. Loose coupling allows for independent processing between producers and consumers.

Very High Scalability Due to the asynchronous I/O based architecture, and the lightweight JSON data model. Reducing cloud and infrastructure costs.

JSONata Support For high-speed, rich JSON transformations

DEMO

DB Configuration

DEMO

CRUD Operations

DEMO

Complex Custom Queries

DEMO

Geo Caching

DEMO

Security – API Keys and JWT Tokens

UPCOMING DBMAGIC FEATURES

- Smarter caching

Ability to control cache using more complicated REST modeling

- Pipeline support

MemSQL pipeline support

- Streaming Data

Support for streaming gigabytes of data

THANK YOU

