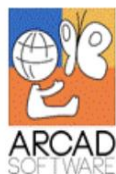# Sponsors of International i-Power 2019

Developing Microservices on IBM i

Jens Melgard Churchill

CTO / Power Evangelist

System & Method A/S

Niels Liisberg

Chief Architect / Power Evangelist / IBM Power Champion

System & Method A/S

iUG 2019

System & Method A/S

In the daily workflow

A journey to microservices

- What is micro services
- Open source
- RPG and Project Sitemule
- Redis
- Spring-boot
- Node.js
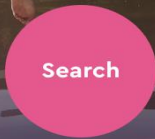- Nginx

… Everything is on IBM i

- … Live, Live , Live ☺

https://www.momondo.co.uk/horizon/sem/flights/general?lang=en&skipapp=true&gclid=...

momondo

✈ **Flights**   🛏 Hotels   🚗 Car hire   🧳 Holidays   🌐 Discover   🏷 Deals   📖 My Trips   👤 Log in

Find flight deals

One-way   **Return**   Multi-city

| Copenhagen (CPH) ⇄ | rome| | 📅 Fri 14/6 | 📅 Sun 16/6 | 1 adult, Economy ⌄ | **Search** |

☐ **Nearby Airports**

🛫 ROM **Rome**, Italy - All airports

🛫 FCO **Rome**, Italy - Fiumicino

🛫 CIA **Rome**, Italy - Ciampino

🛫 GRR Gerald R. Ford Intl (97 miles from **Rome** City, IN, United States)

🛫 CHI Chicago (near **Rome**oville, IL, United States)

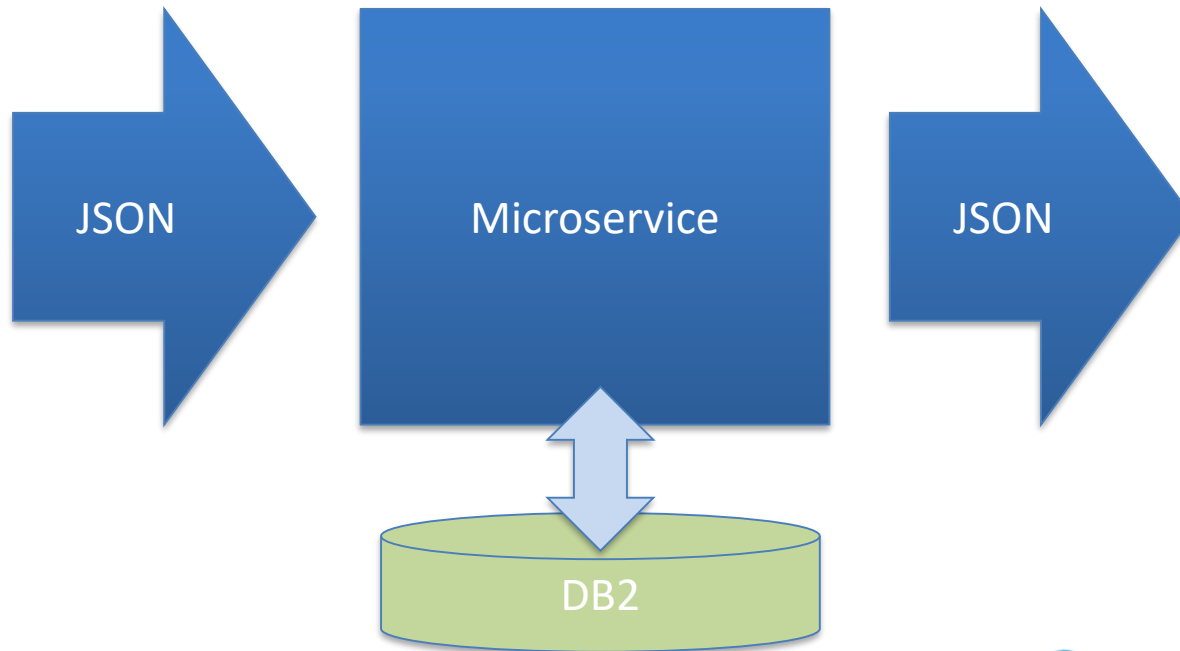🛫 YNG Youngstown (26 miles from **Rome**, OH, United States)

Tokyo
FLIGHTS: 454 GBP

San Francisco
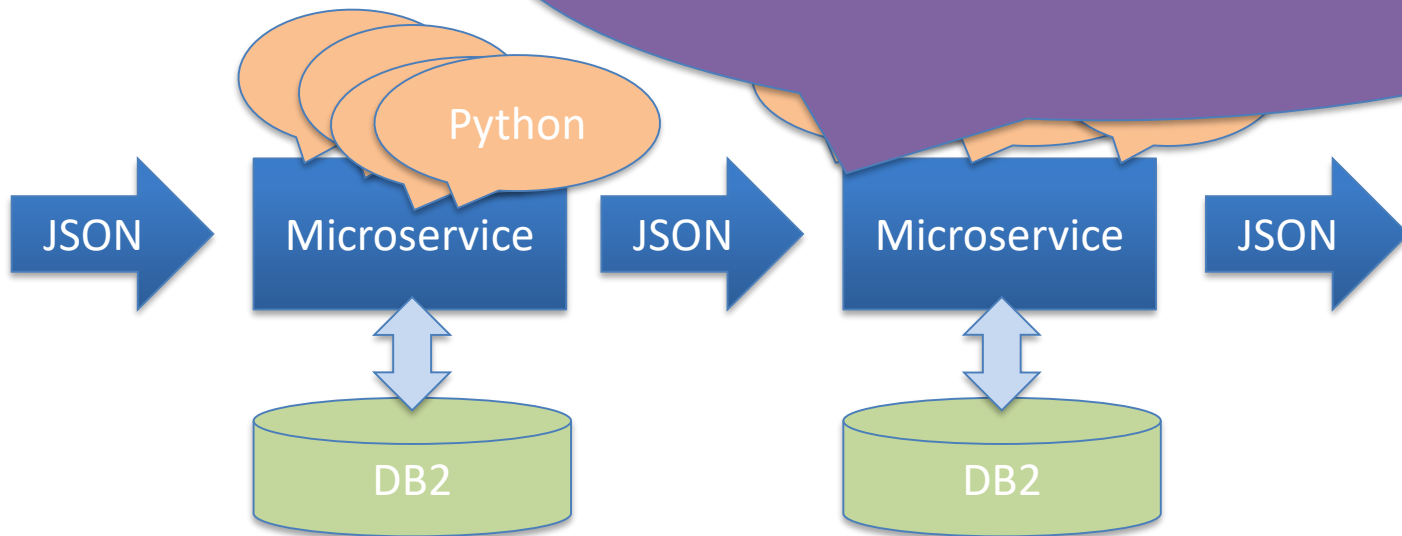FLIGHTS: 302 GBP

New York
FLIGHTS: 248 GBP

What is a microservice?

Microservices and RPG?

- Can you make microservices in RPG?
- Microservices requires a self contained application server
- You need some JSON tooling if you will provide JSON I/O
- Can opens source help me?
- ILEastic
- https://github.com/sitemule/
- We have made a demo project for you: Travallar

System & Method A/S
In the daily workflow

Travallar

http

Bound service program

Your application

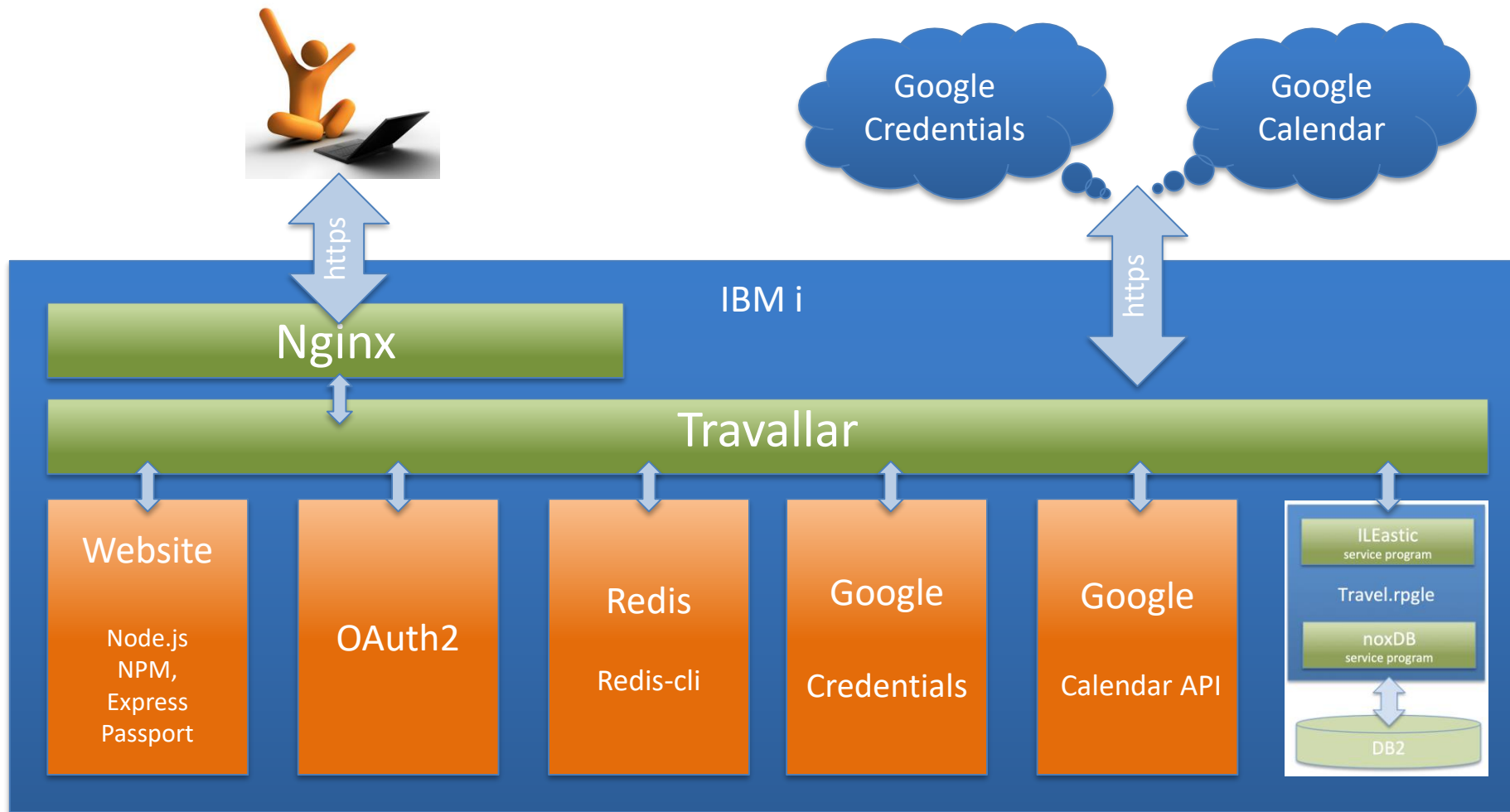Bound service program

ILEastic
service program

Travel.rpgle

noxDB
service program

s

DB2

System & Method A/S
In the daily workflow

Google Credentials

Google Calendar

https

IBM i

https

Nginx

Travallar

Website

Node.js
NPM,
Express
Passport

OAuth2

Redis

Redis-cli

Google

Credentials

Google

Calendar API

ILEastic
service program

Travel.rpgle

noxDB
service program

DB2

System & Method A/S
In the daily workflow

It's show time !! ☺

https://gitlab.devops.sitemule.com/demos/i-ug-uk/travallar

System & Method A/S
In the daily workflow

Questions?

By:
Jens Melgard Churchill
jmc@sitemule.com

Niels Liisberg
nli@sitemule.com

https://gitlab.devops.sitemule.com/demos/i-ug-uk
https://github.com/sitemule

System & Method A/S
In the daily workflow