

BizTalk Summit 2015 – London

ExCeL London | April 13th & 14th

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BizTalk 360



Charles Young

Solidsoft Reply, Principal Consultant

Microservices and the Cloud-Based Future of Integration

Sponsors



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Today

UK "SME" £10M revenue
Core team of 60 specialists
100% Microsoft focus
ISO 9001 & 27001 compliant
UK Government IL3 certified
International Society for Pharma
Engineering GAMP5



Specialist Microsoft development consultancy

1993 Microsoft certified application developers
1999 Microsoft managed partner
2000 Microsoft BizTalk integration specialists
2002 Microsoft global advisory council
2010 Windows Azure "cloud first" solutions
2013 Joined Reply

Microsoft® Global Partner Network™ **PARTNER OF THE YEAR**

| | | |
|------|---------------|-------------------------|
| 2006 | Winner | Application Integration |
| 2008 | Finalist | Application Integration |
| 2010 | Finalist | Custom Development |
| 2011 | Winner | Application Integration |
| 2012 | Finalist | Government Solutions |
| 2013 | Winner | Cloud Solutions |

who we are



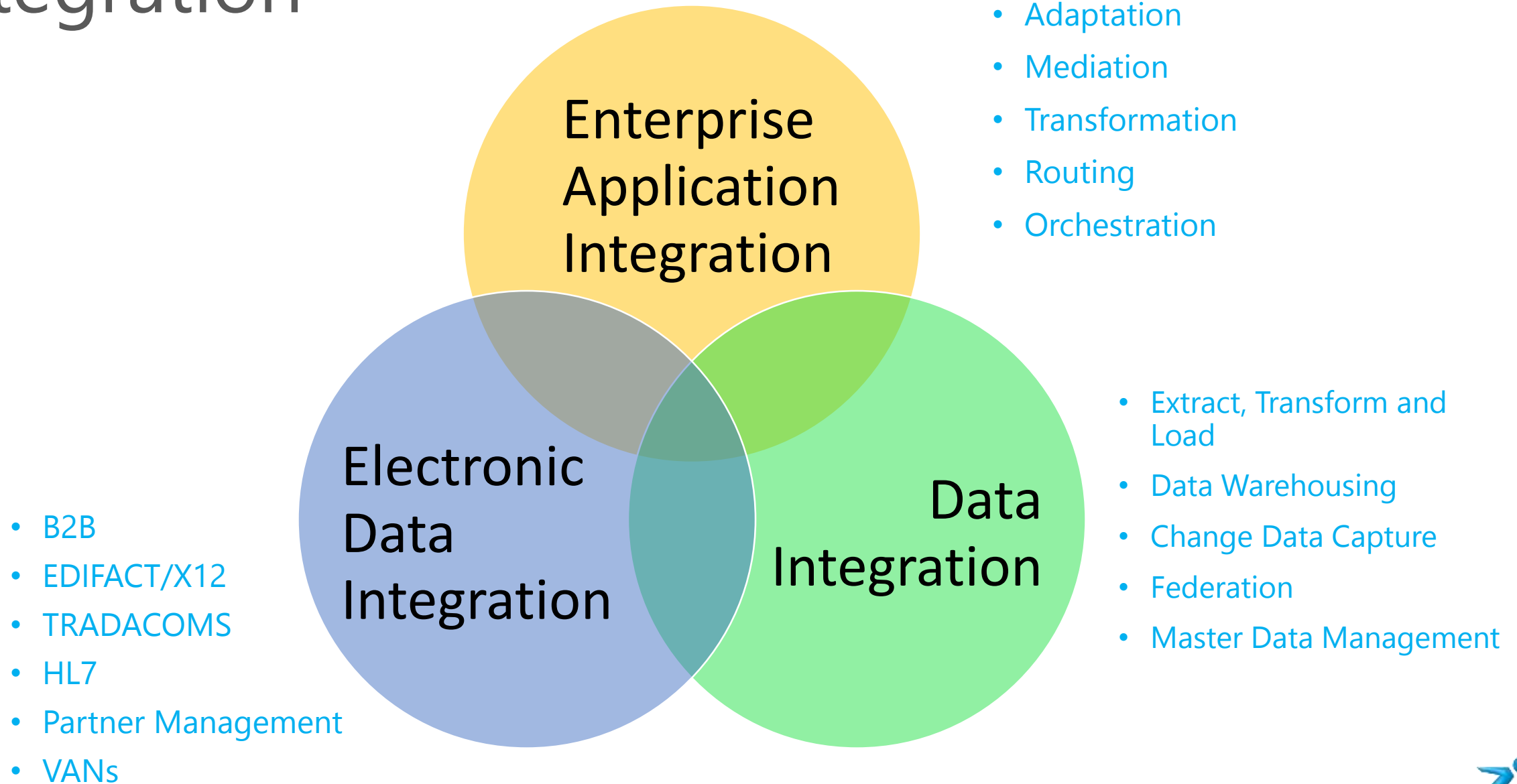
Agenda

- Understanding Integration
- Integration Trends
- Microservices
- Microservices & PaaS
- Container
- Microservice Integration

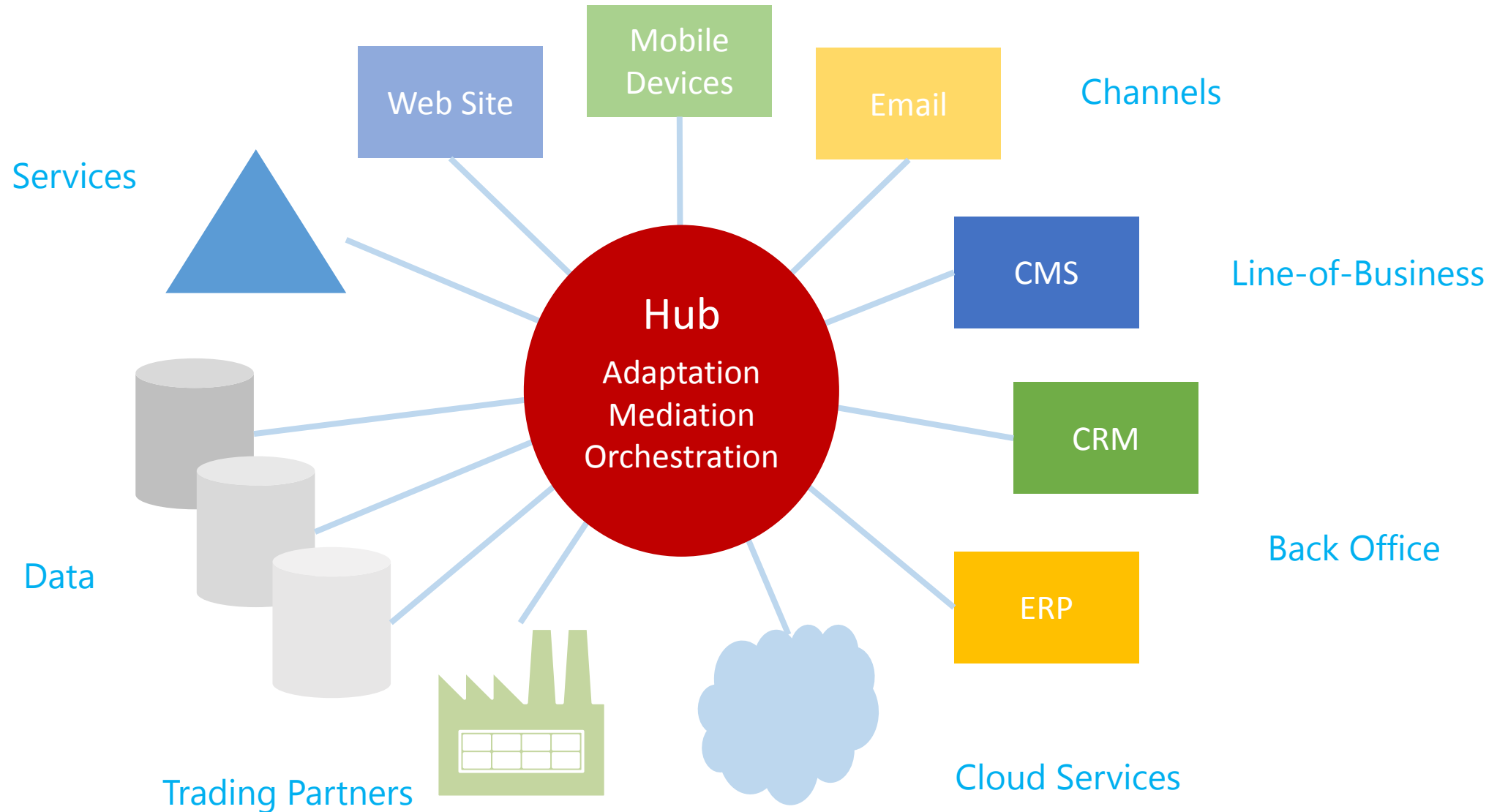


Understanding Integration

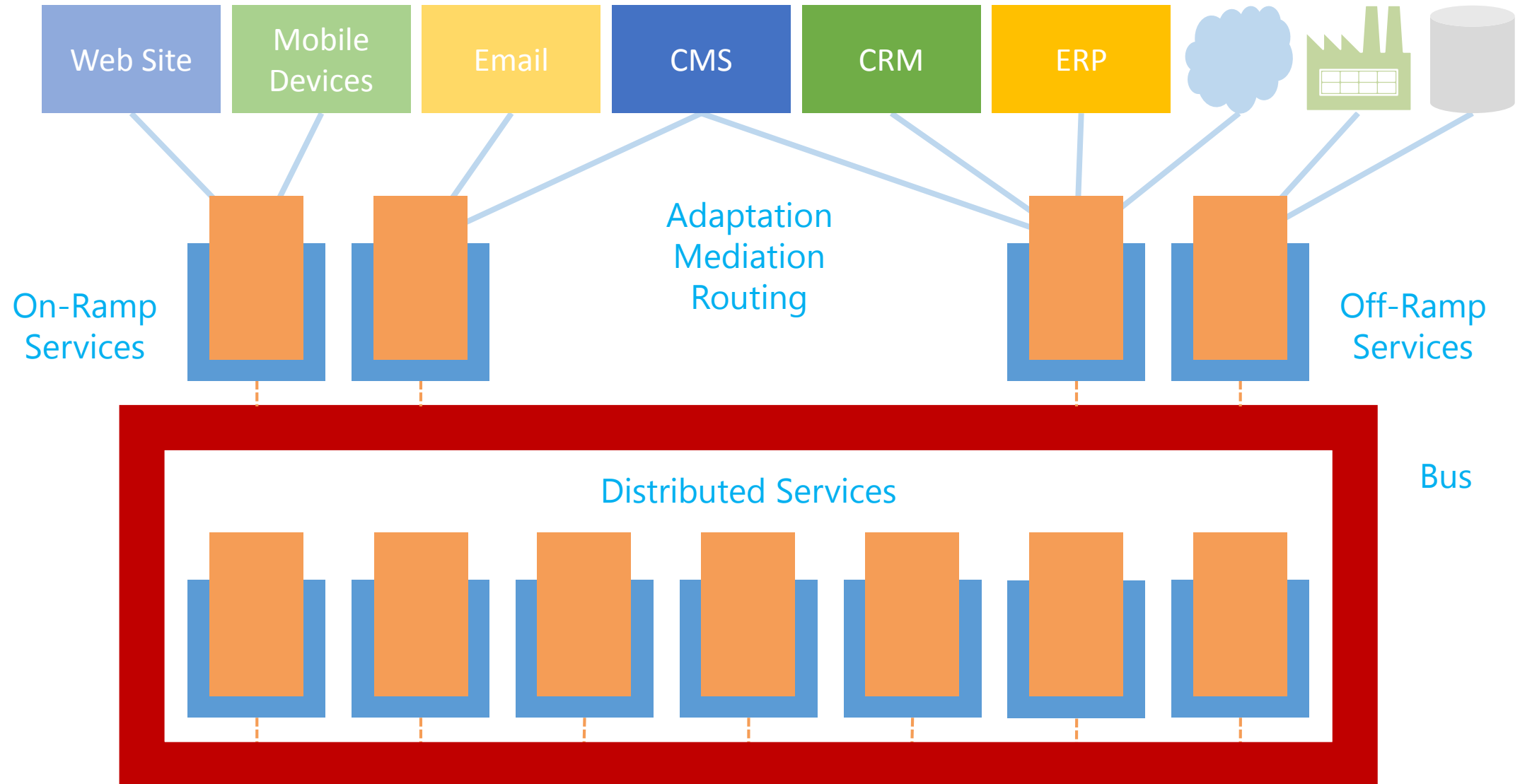
Integration



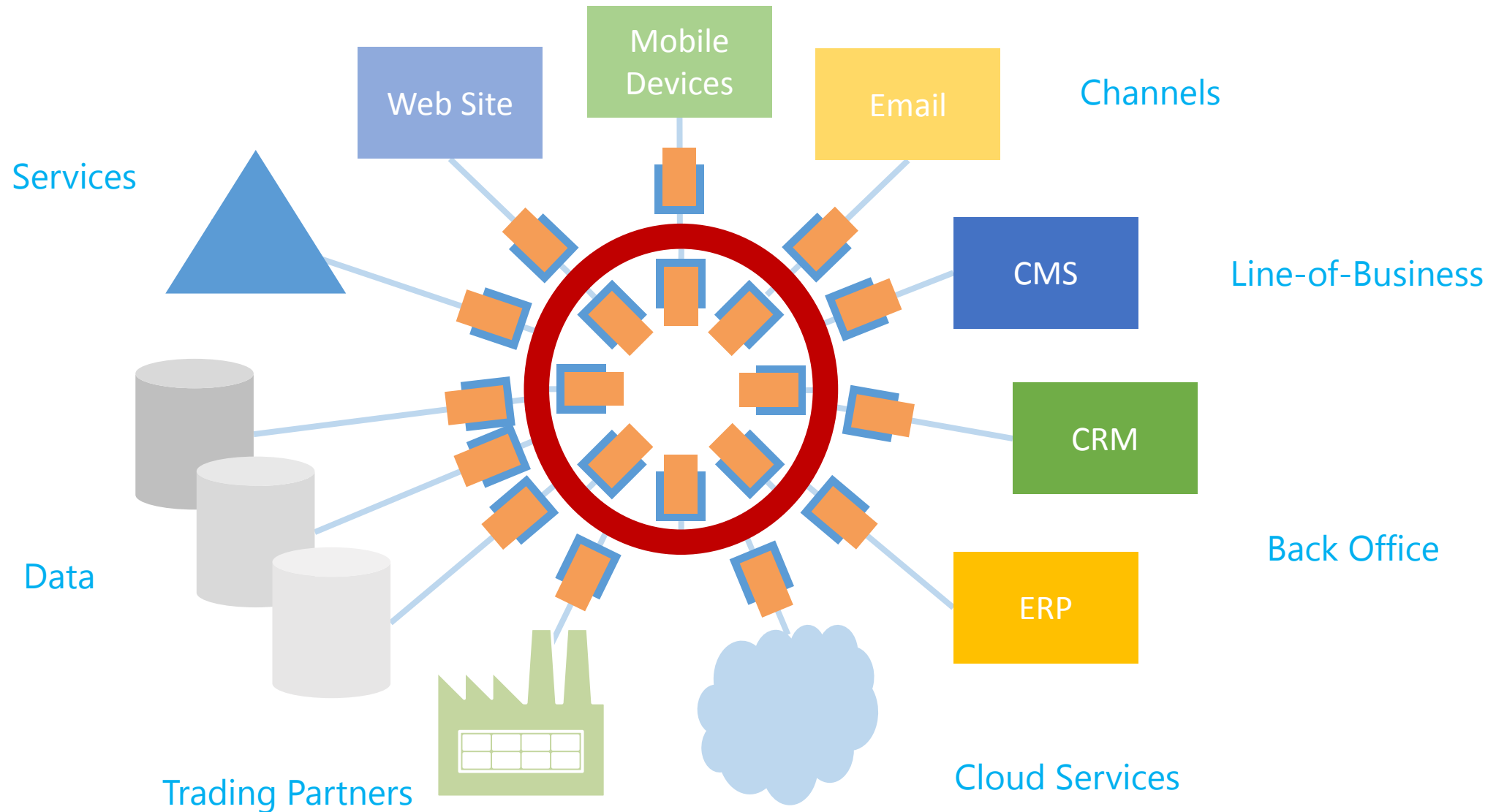
Enterprise Application Integration (EAI)



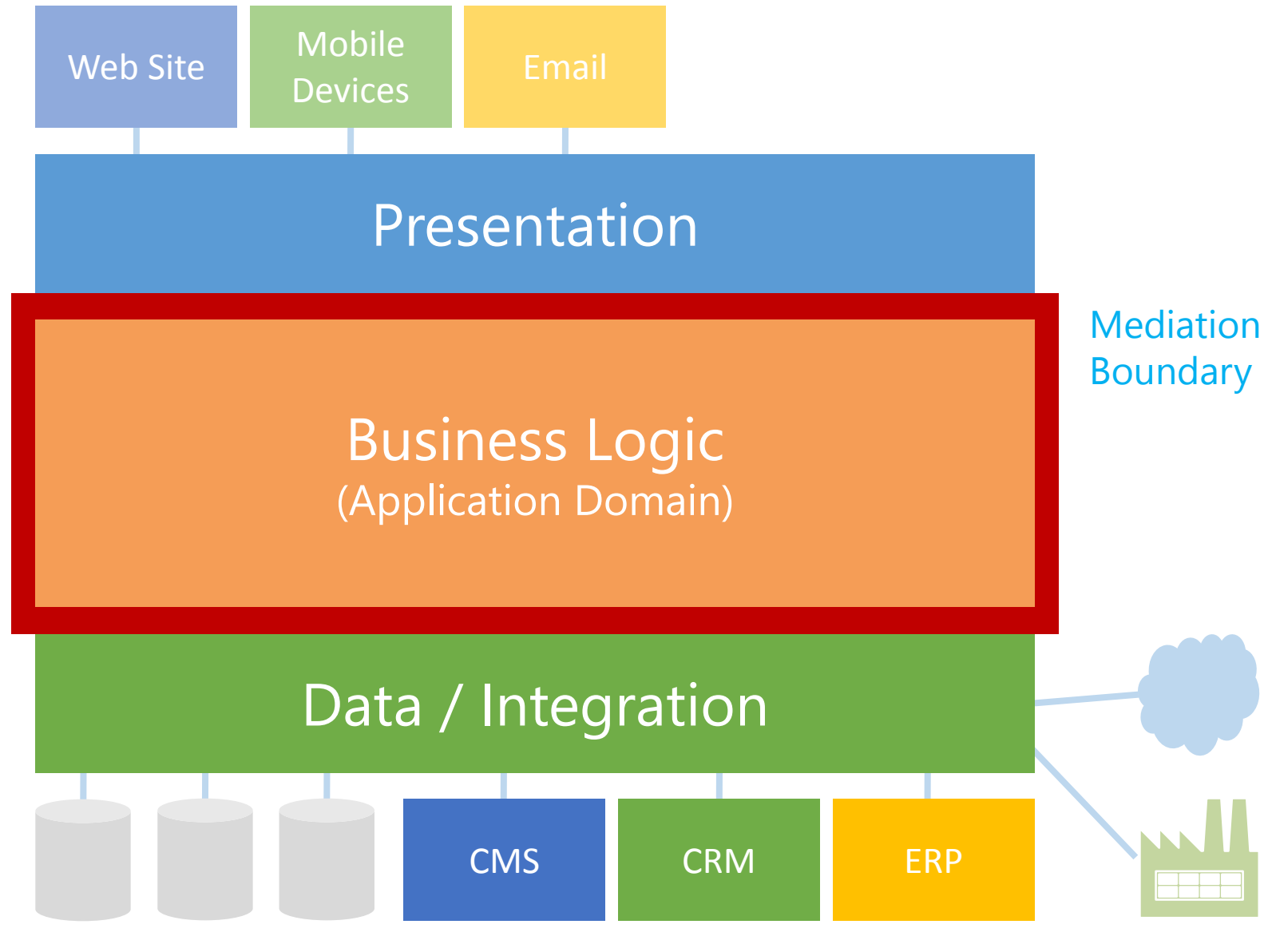
ESB Service Integration



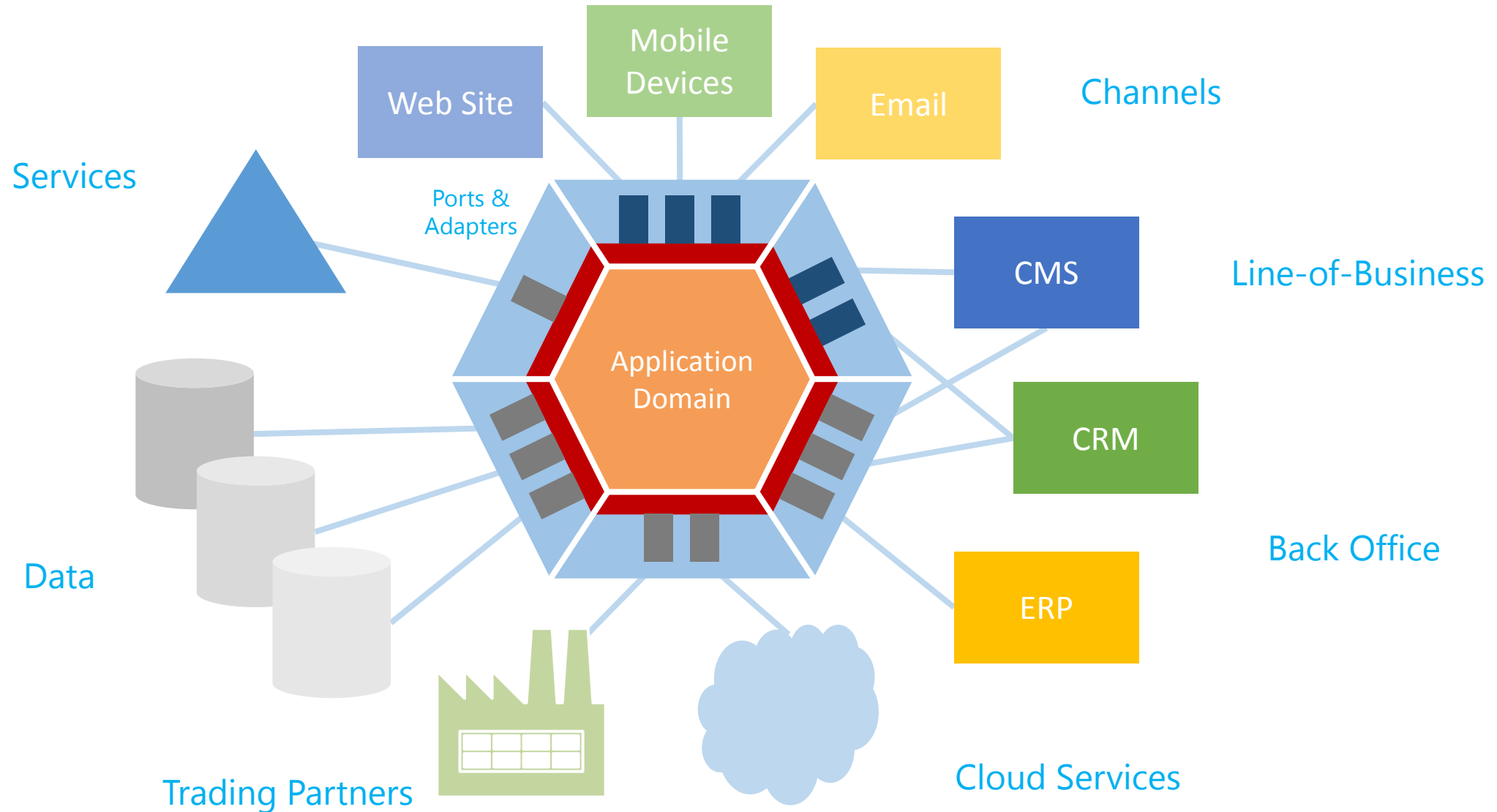
ESB Service Integration



Layered Architecture



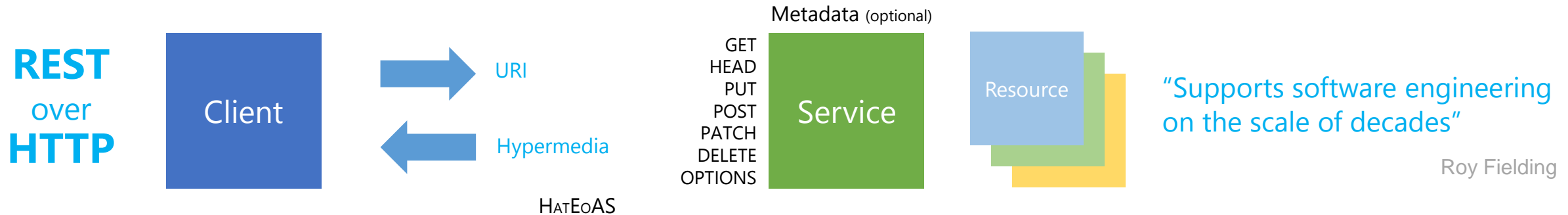
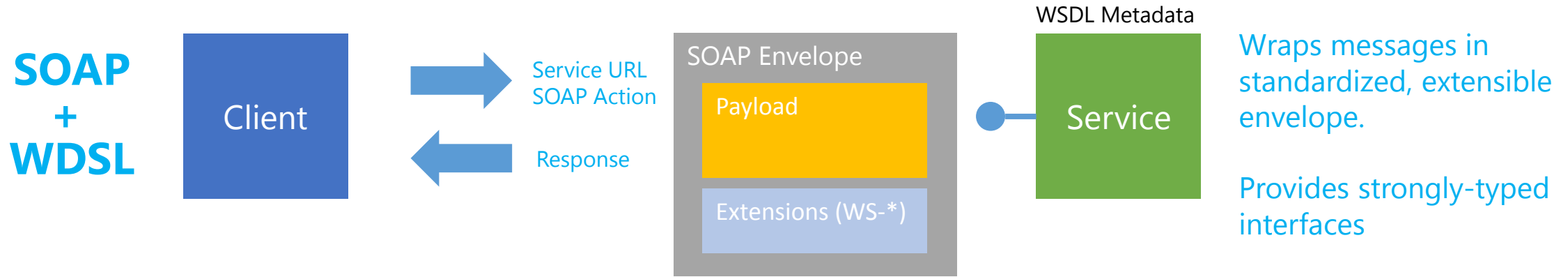
Hexagonal Architecture - Alistair Cockburn



The Changing Face of Integration



Standardising the Interface



Cloud Services Integration



PayPal

Authorize.Net
a CyberSource solution

Microsoft
Dynamics CRM

SharePoint
Online

Office 365

Wave

FRESHBOOKS

Intacct

Trello

twilio

zuora

ZOHO
Work · Online

Dropbox

NETSUITE

GitHub

janrain

zendesk



workday

Stormpath

servicenow

Avalara
Making sales tax less taxing

box

vimeo

WordPress

Drupal

BrainTree

tumblr



yammer

Microsoft Azure

amazon
web services



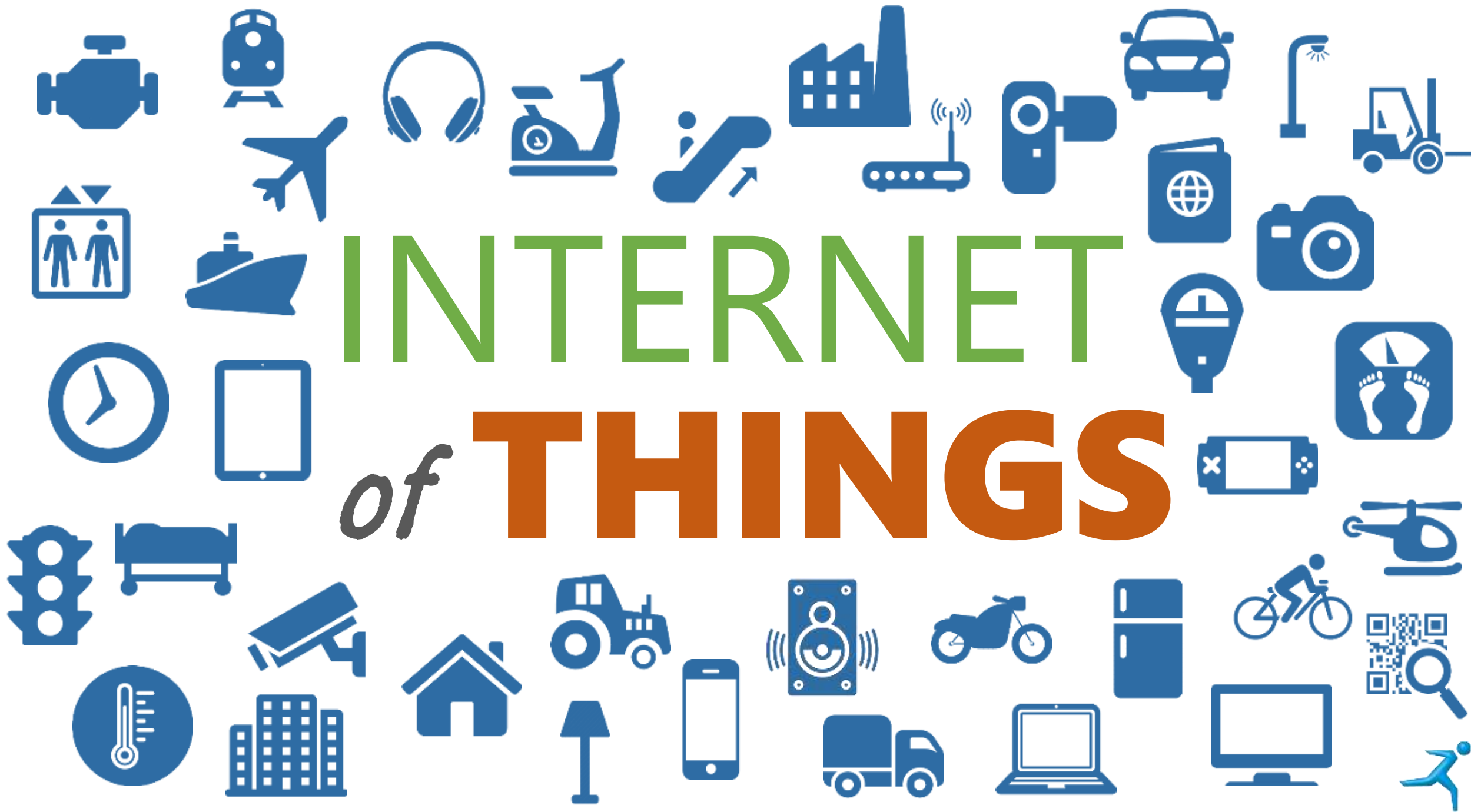
Google Cloud Platform

heroku



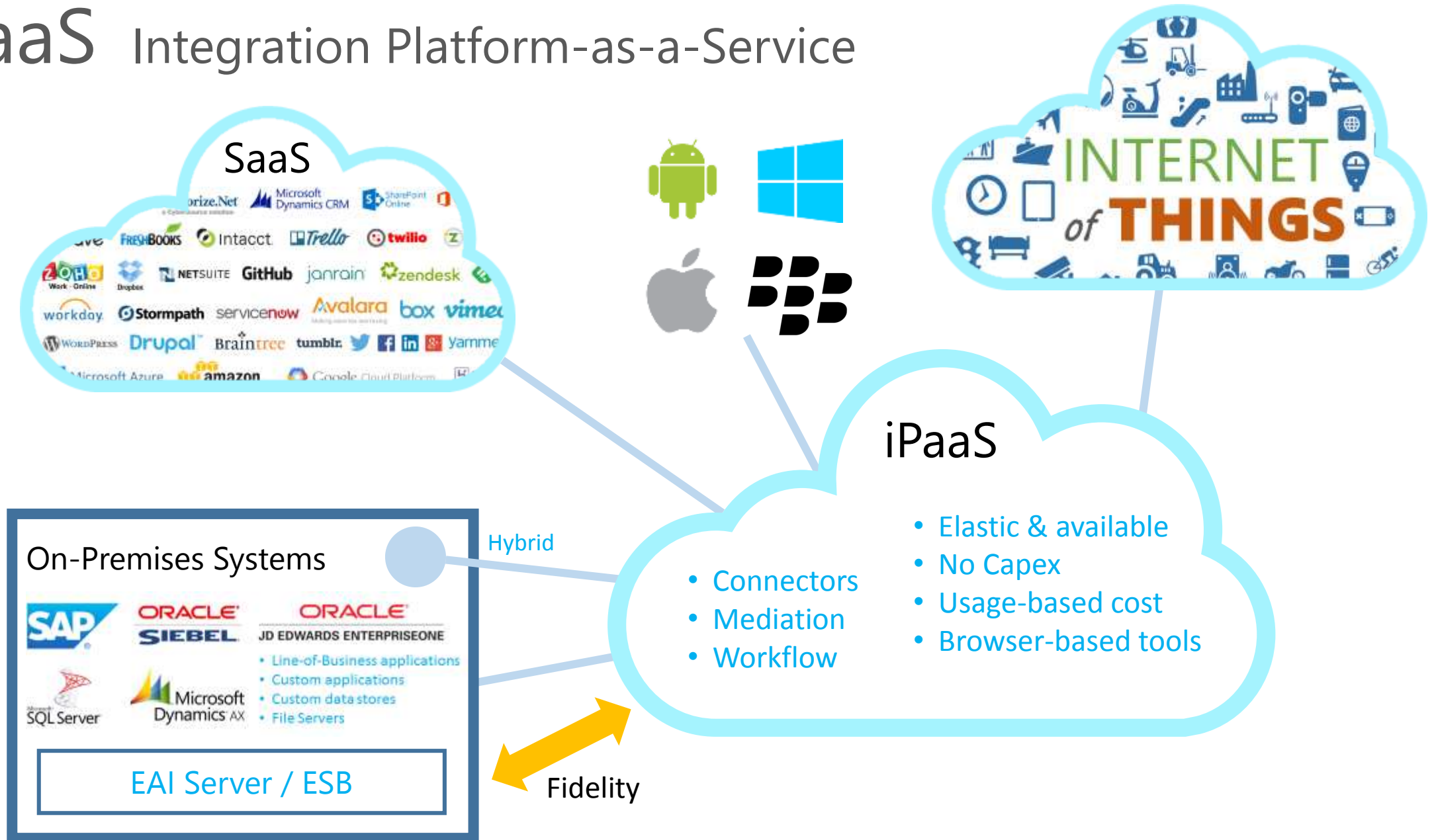
Mobile Application Integration





INTERNET *of* THINGS

iPaaS Integration Platform-as-a-Service



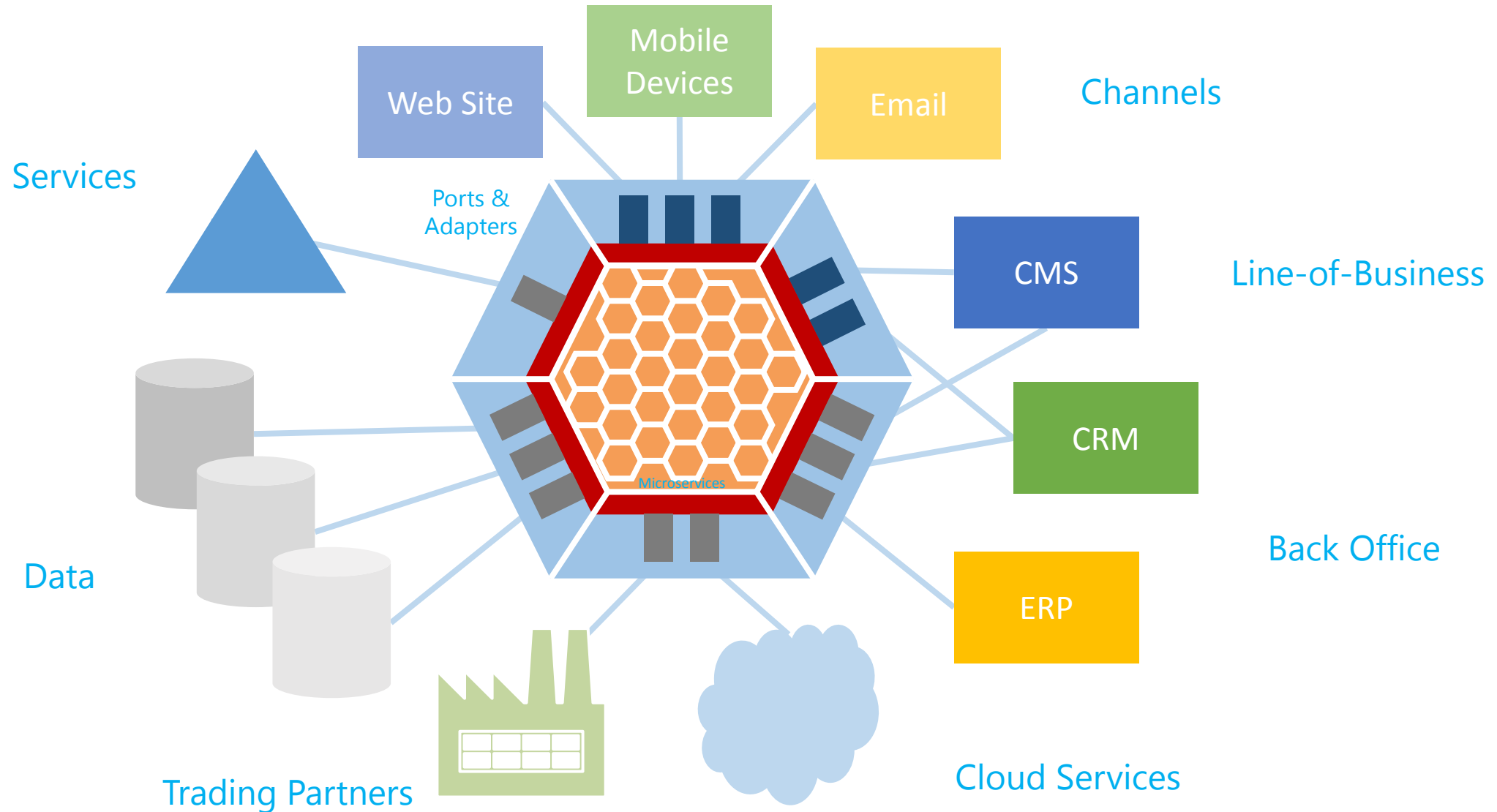
Aspirations

- Simplicity
- Velocity
- Evolution
- Democratisation
- Cost Reduction

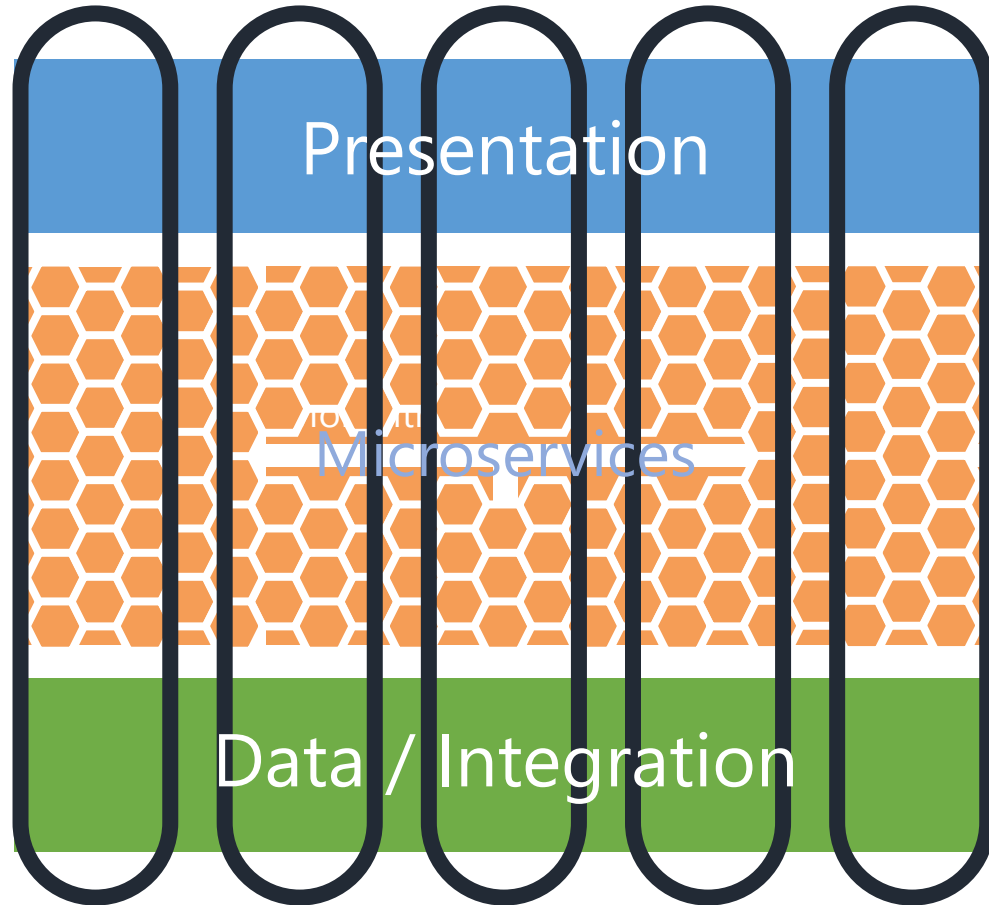


Microservices

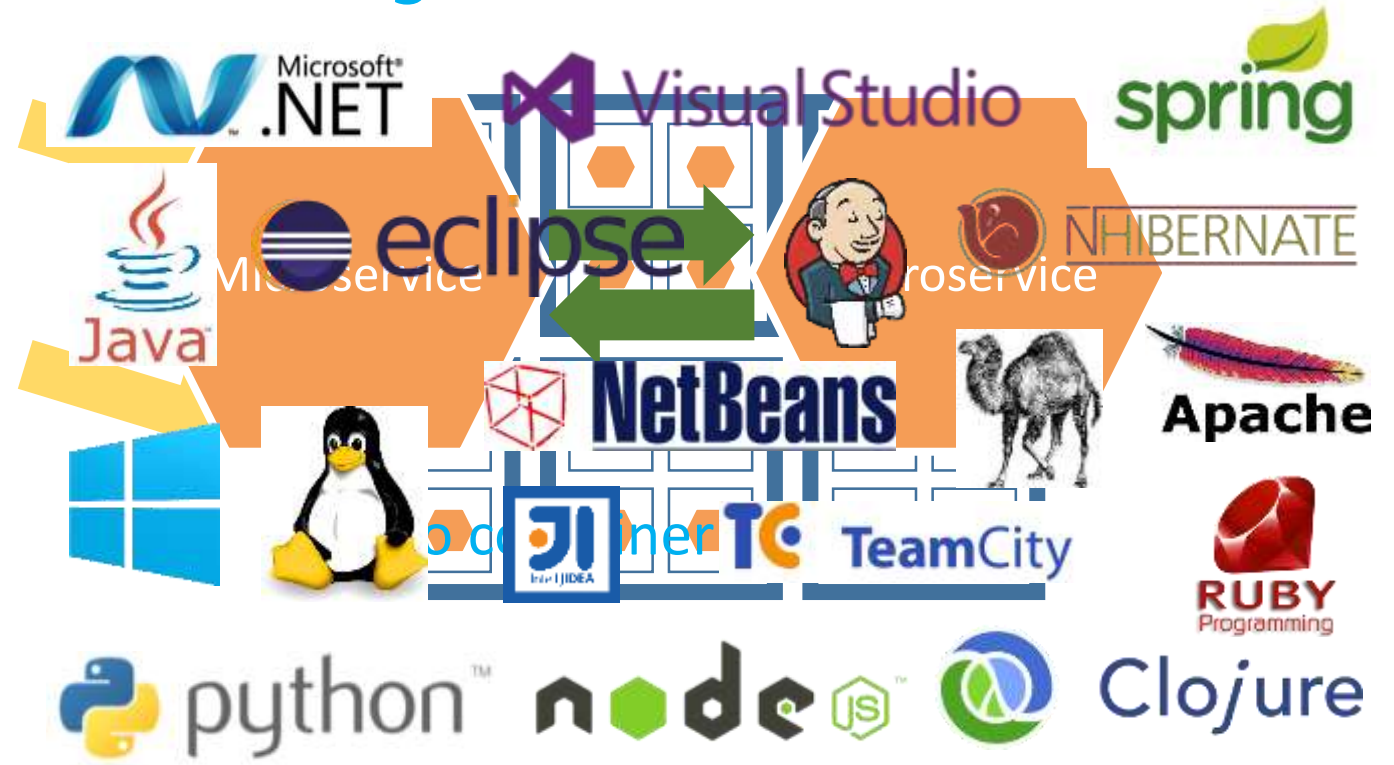
Microservices in Hexagonal Architecture



Microservice Principles

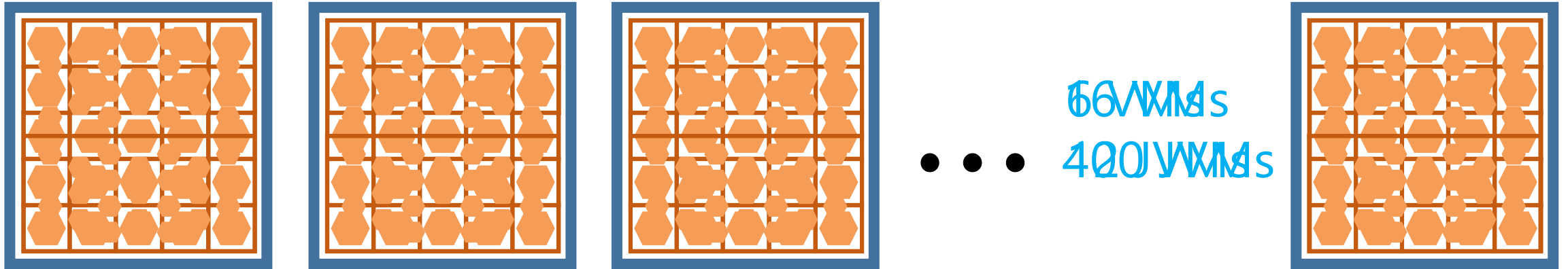


Developing, testing, deploying, and managing microservices independently



Microservices

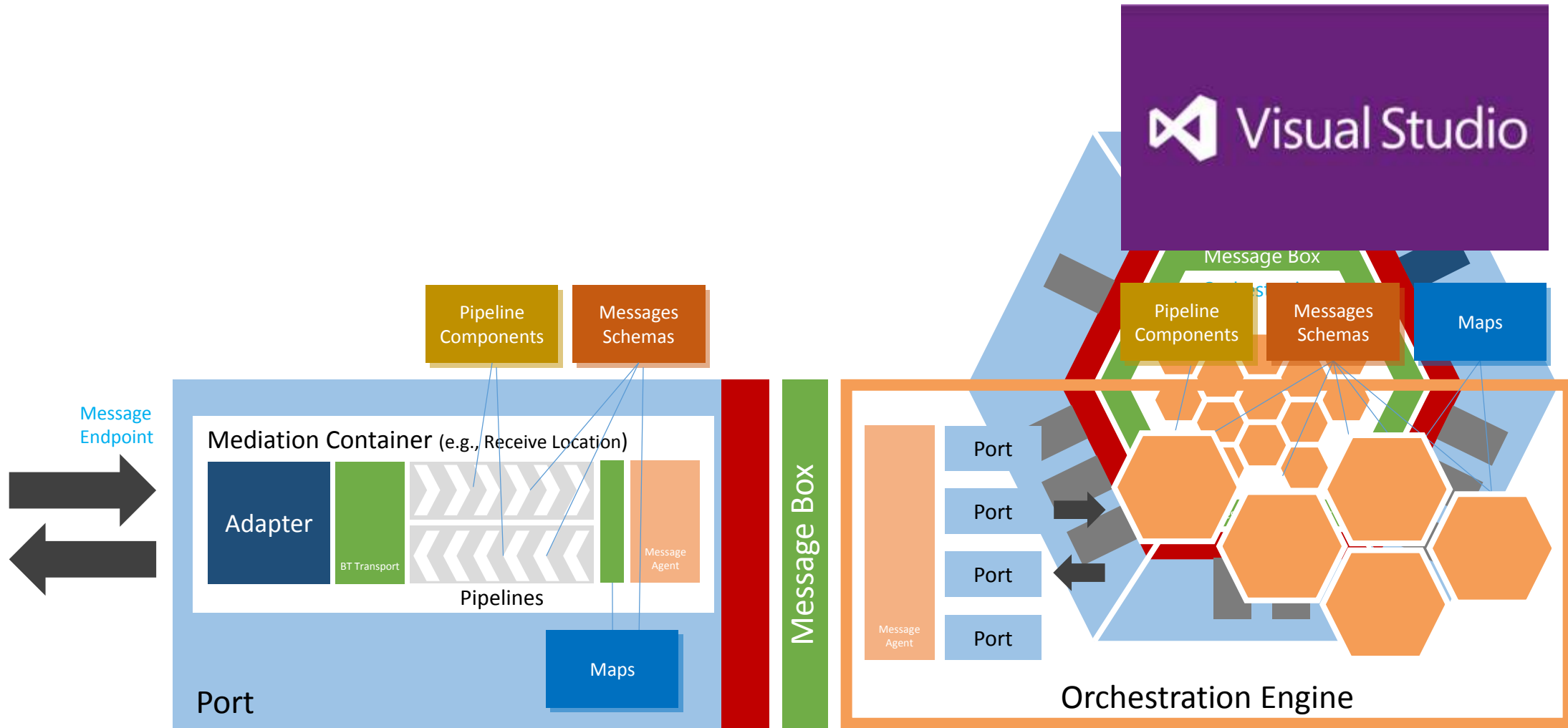
Load Balancer



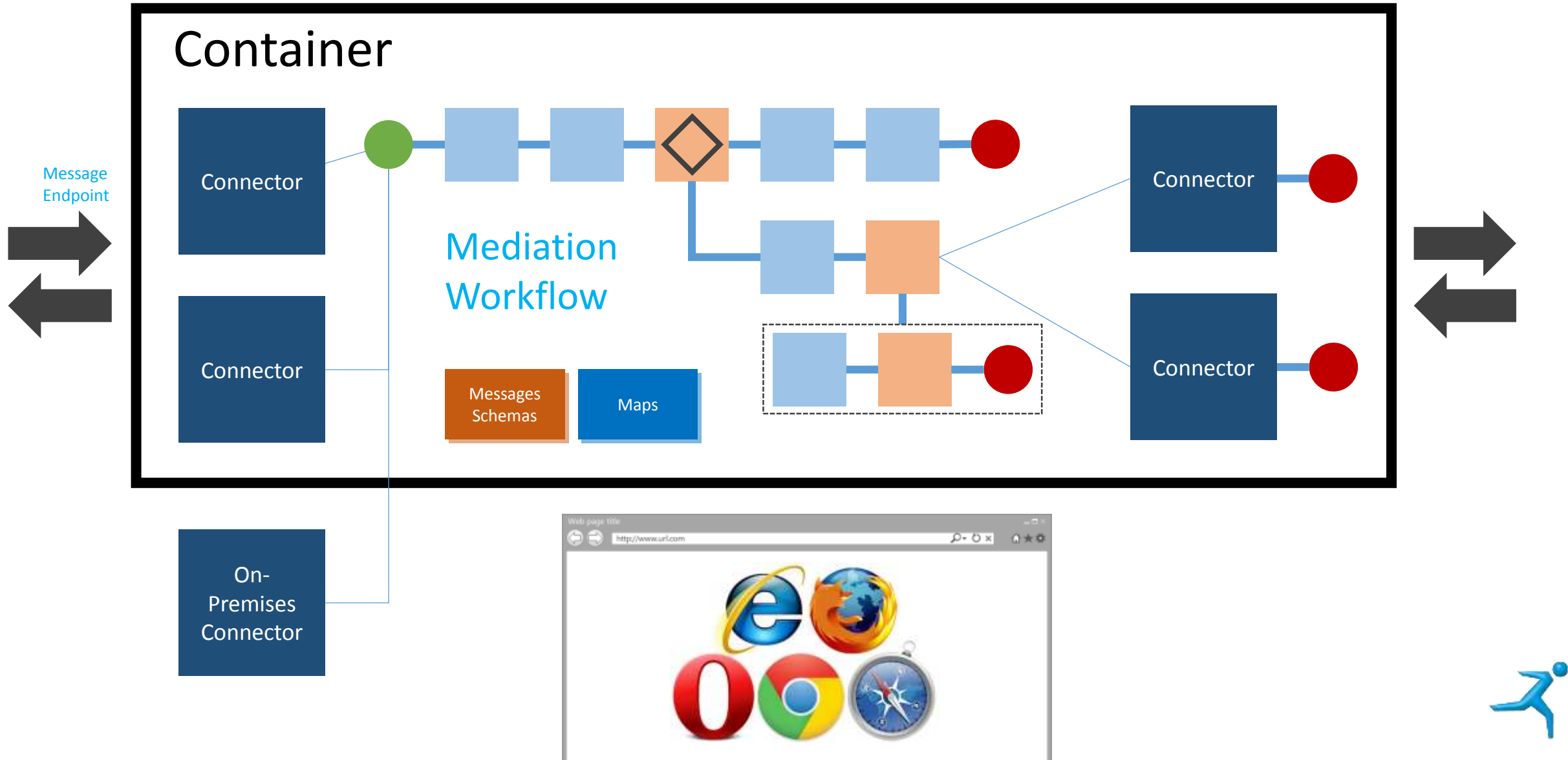
- Emad Benjamin: <http://bit.ly/1BmMuet>



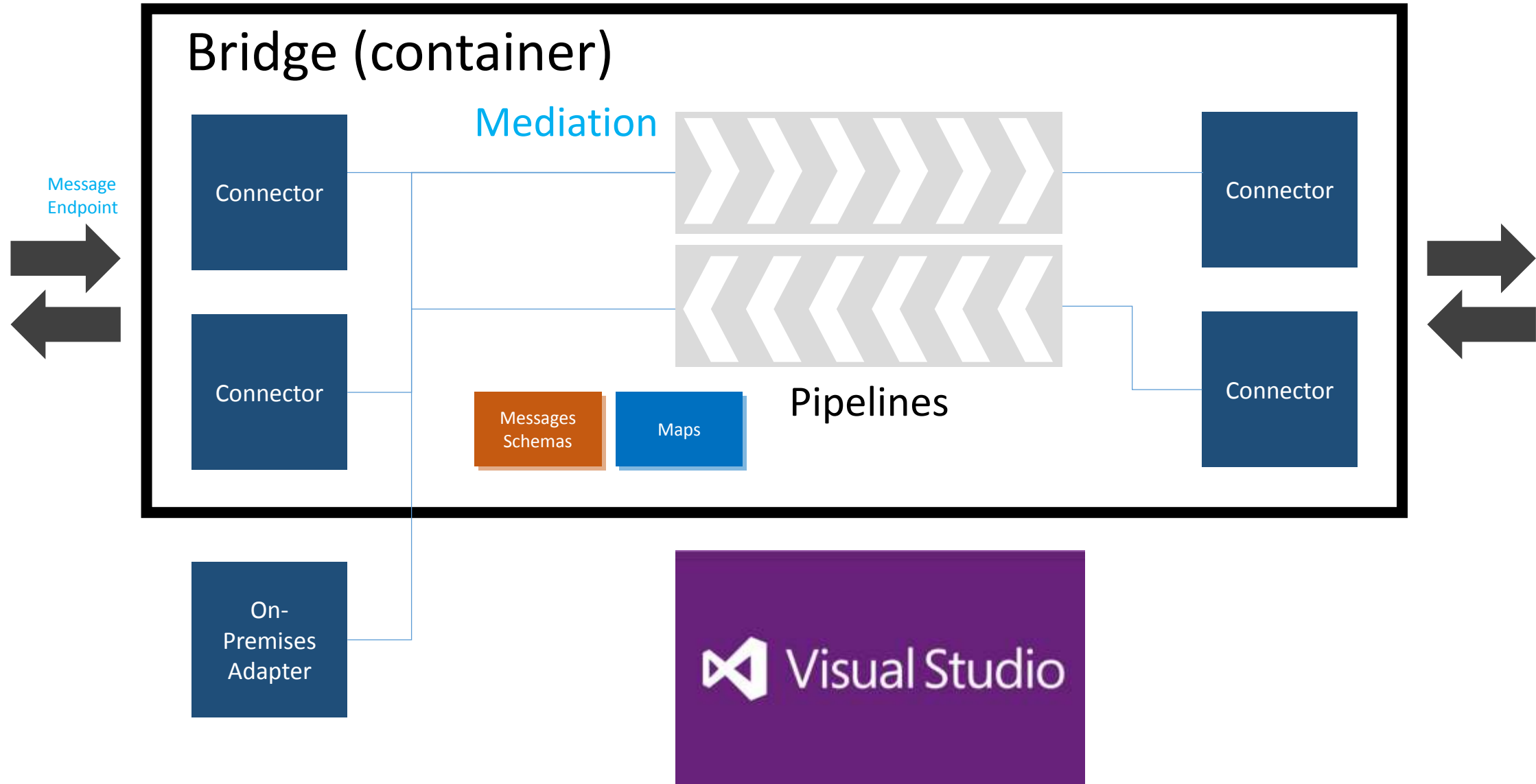
BizTalk Server and Microservices



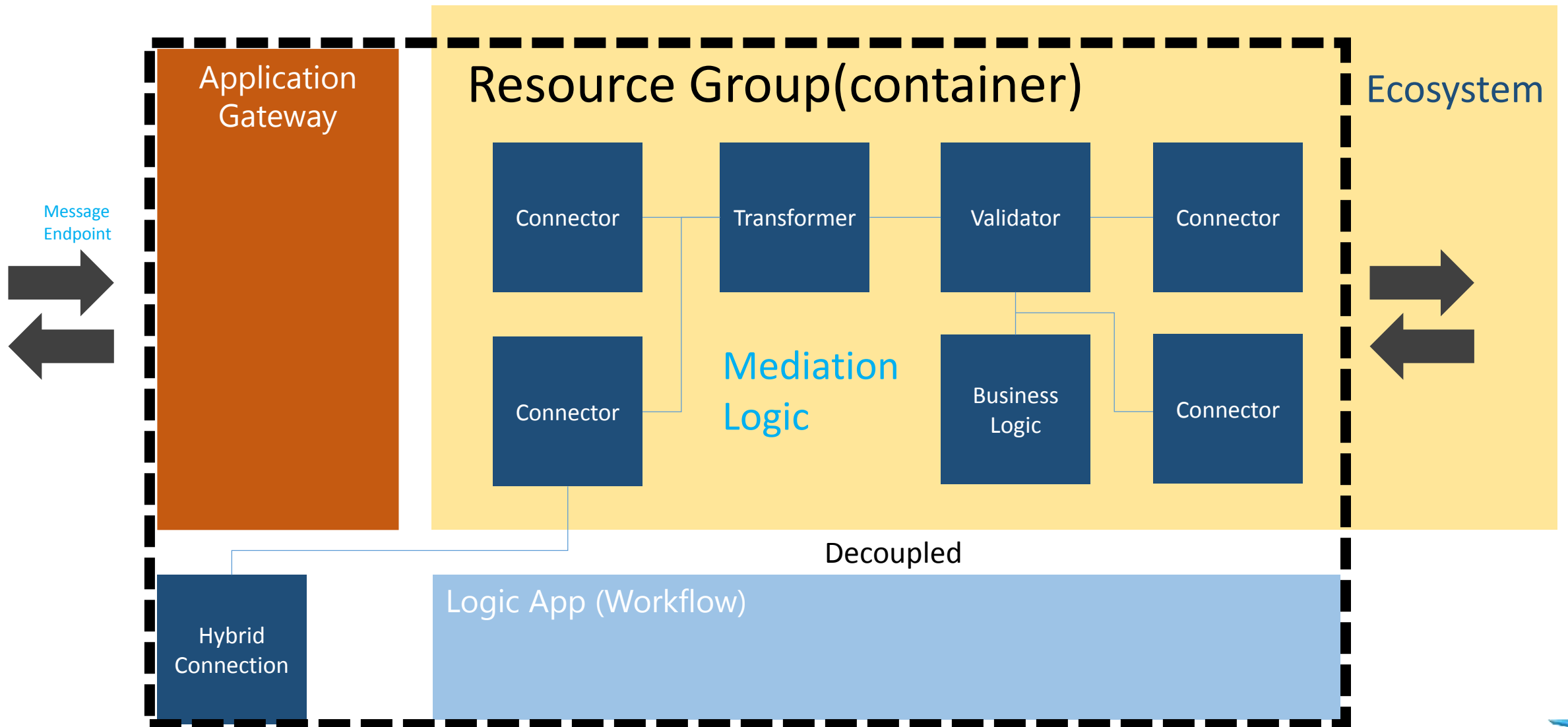
iPaaS and Microservices



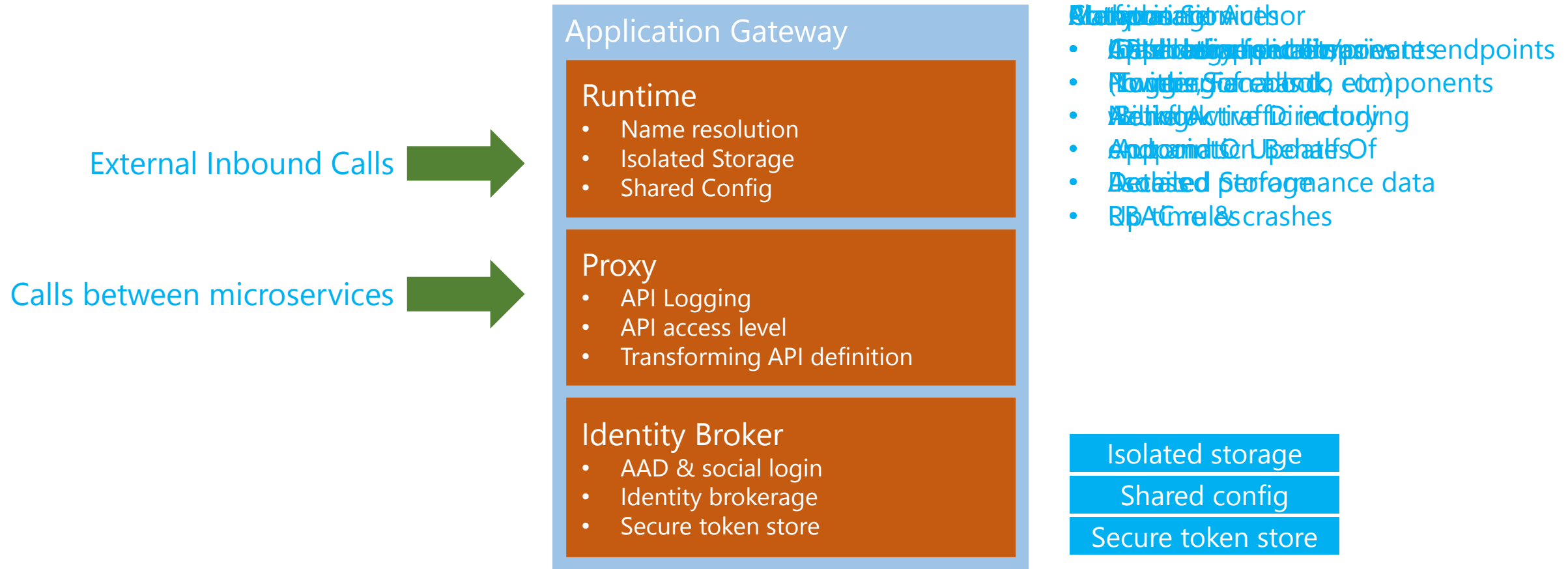
Azure BizTalk Services - MABS



Azure App Service and Microservices



Application Gateway



Containers

Azure Containers Today

PaaS Roles

Web Roles
Worker Roles

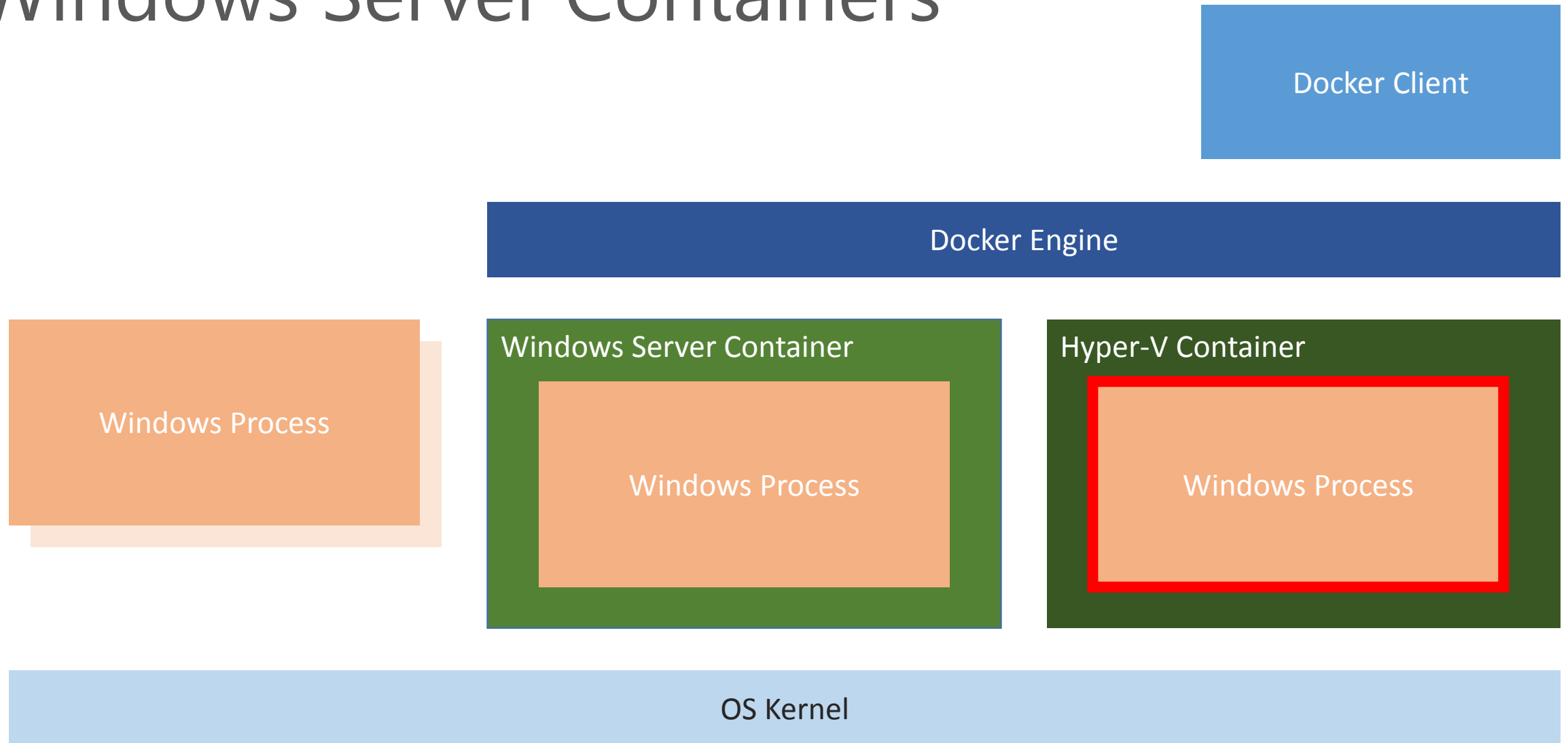
App Service

Web Apps
Mobile Apps
API Apps
BizTalk Apps
Logic Apps

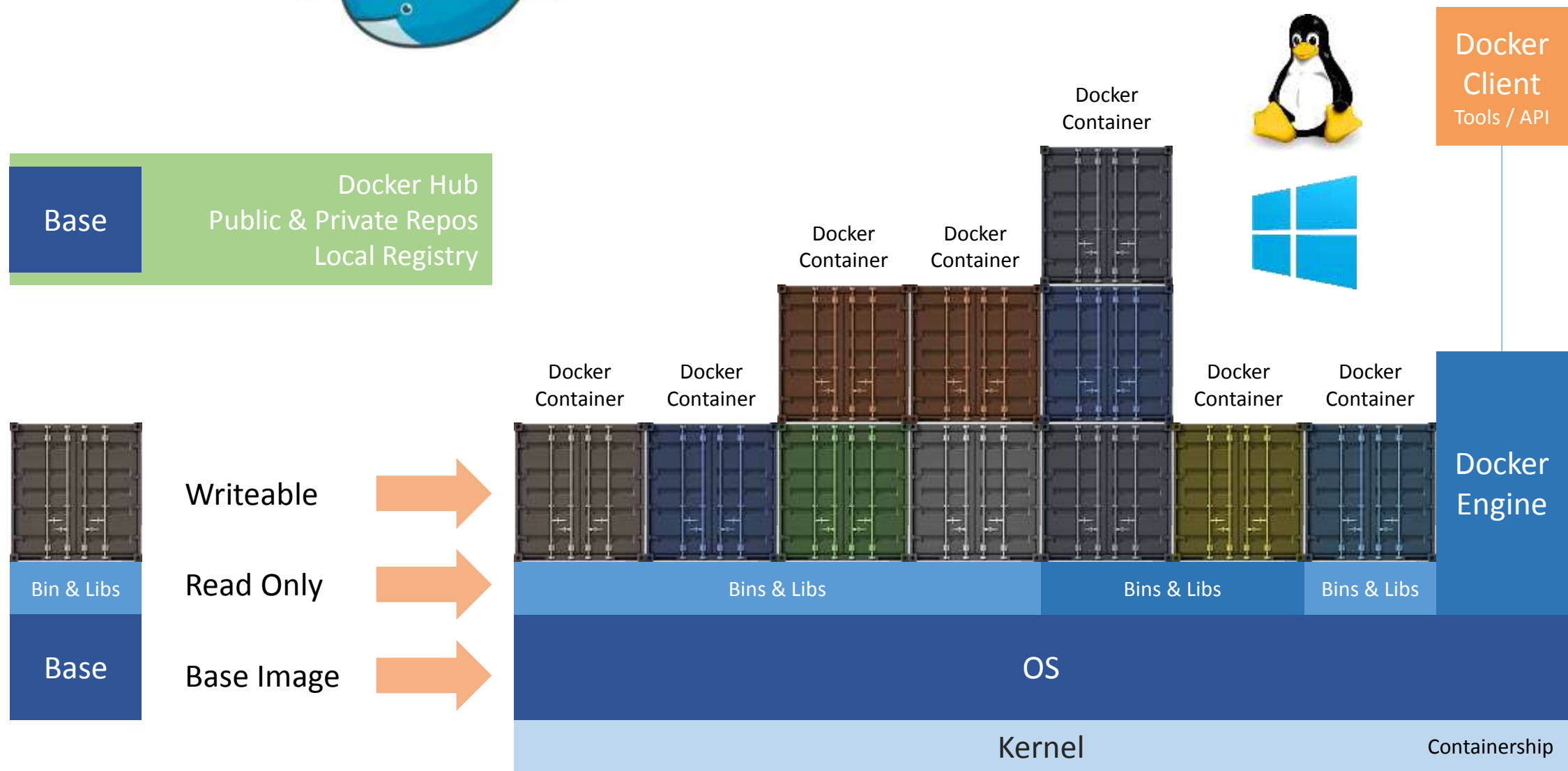
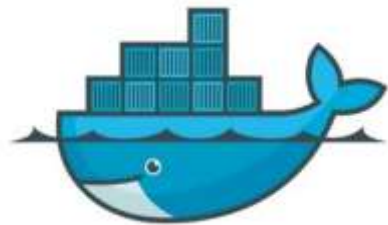
MABS



Windows Server Containers

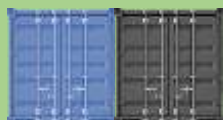


Docker



Docker and DevOps

Docker Image Repos



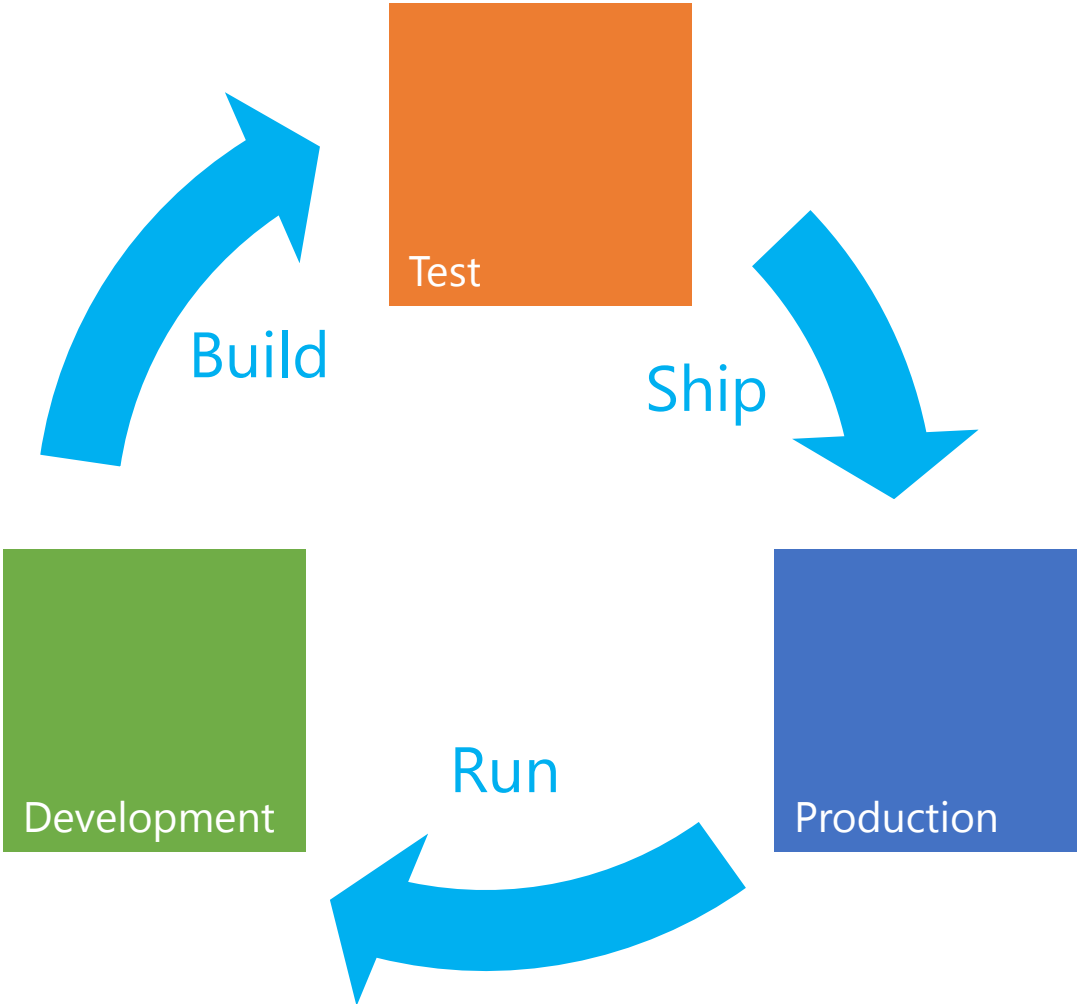
Build scripts, frameworks
and tools

Source Code Repo

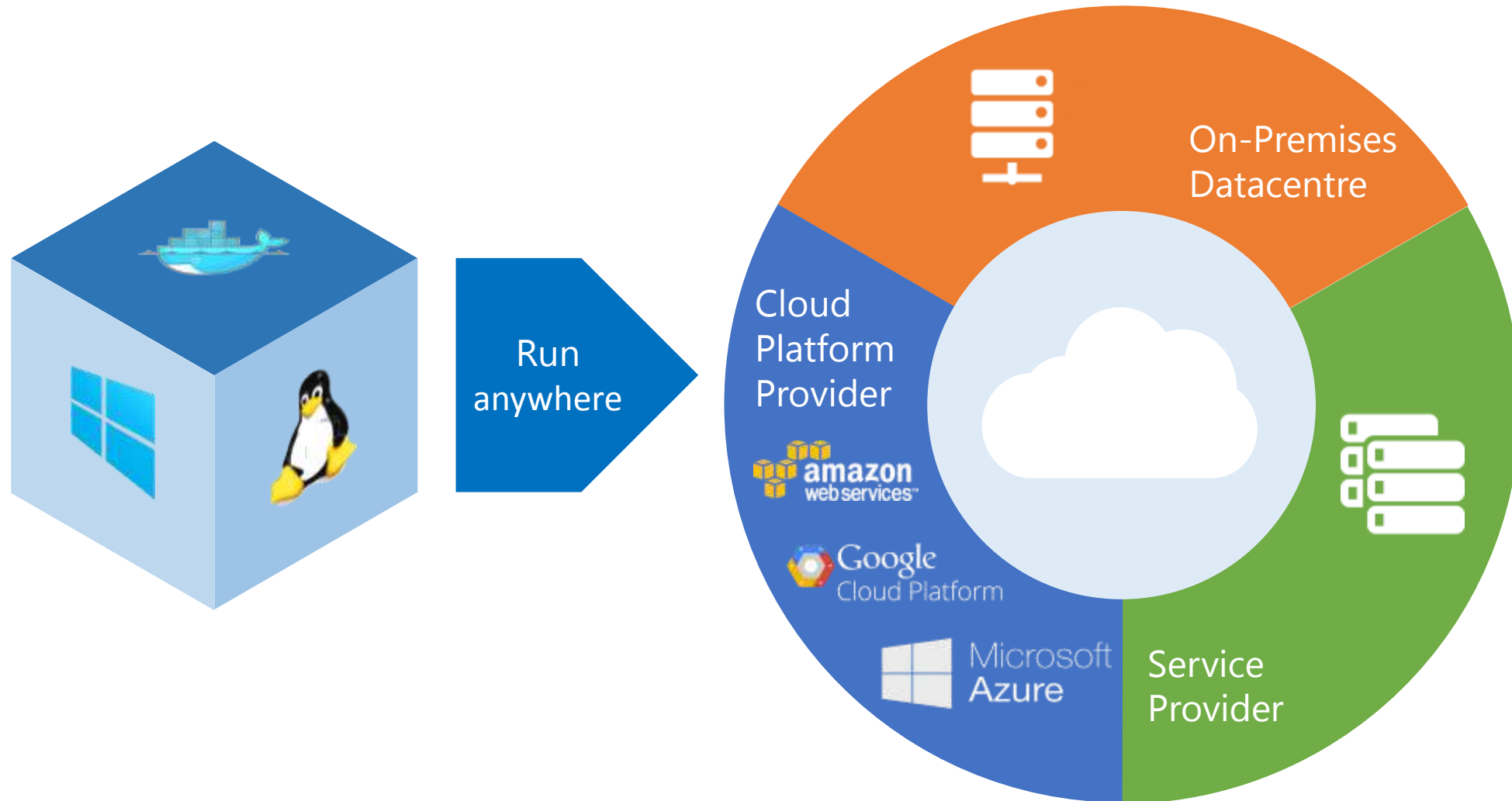


Package Management

- N
- O
- C



Docker and Platform Independence



Evolving PaaS Landscape



IBM Bluemix

- Cloud Foundry
- Docker Container Service



Google Cloud Platform

- App Engine
- Container Engine



- Elastic Beanstalk
- EC2 Container Service
- Lambda



Microsoft Azure

- PaaS 'V2'
- Resource Groups
- Docker for Windows



CLOUD
FOUNDRY™

vmware®



- Slugs
- Dynos



Docker



Kubernetes



OPENSIFT

- Gears

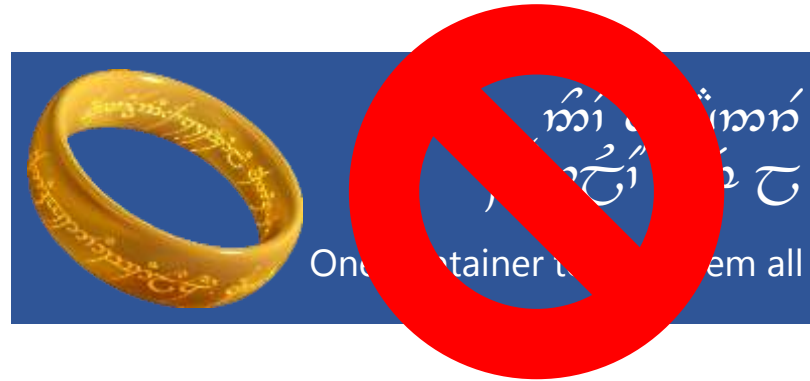
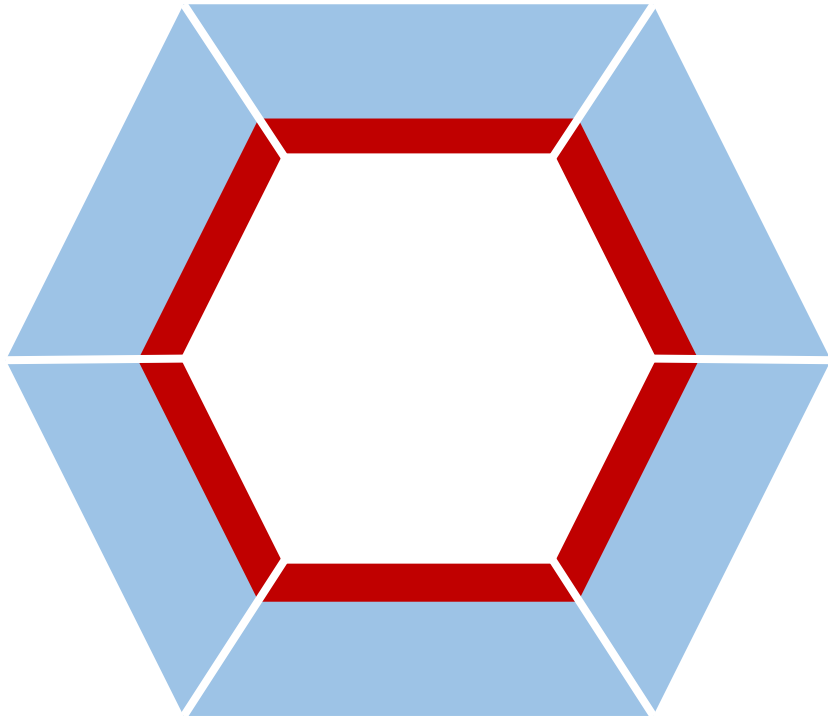


Docker Swarm

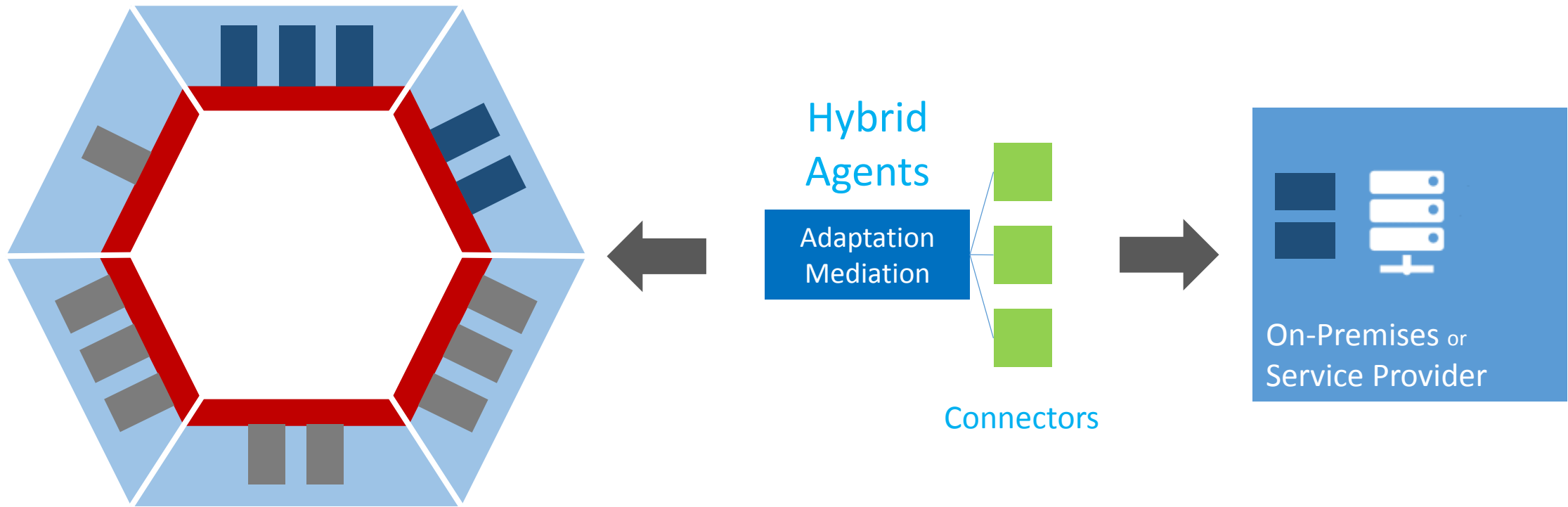


Microservice Integration

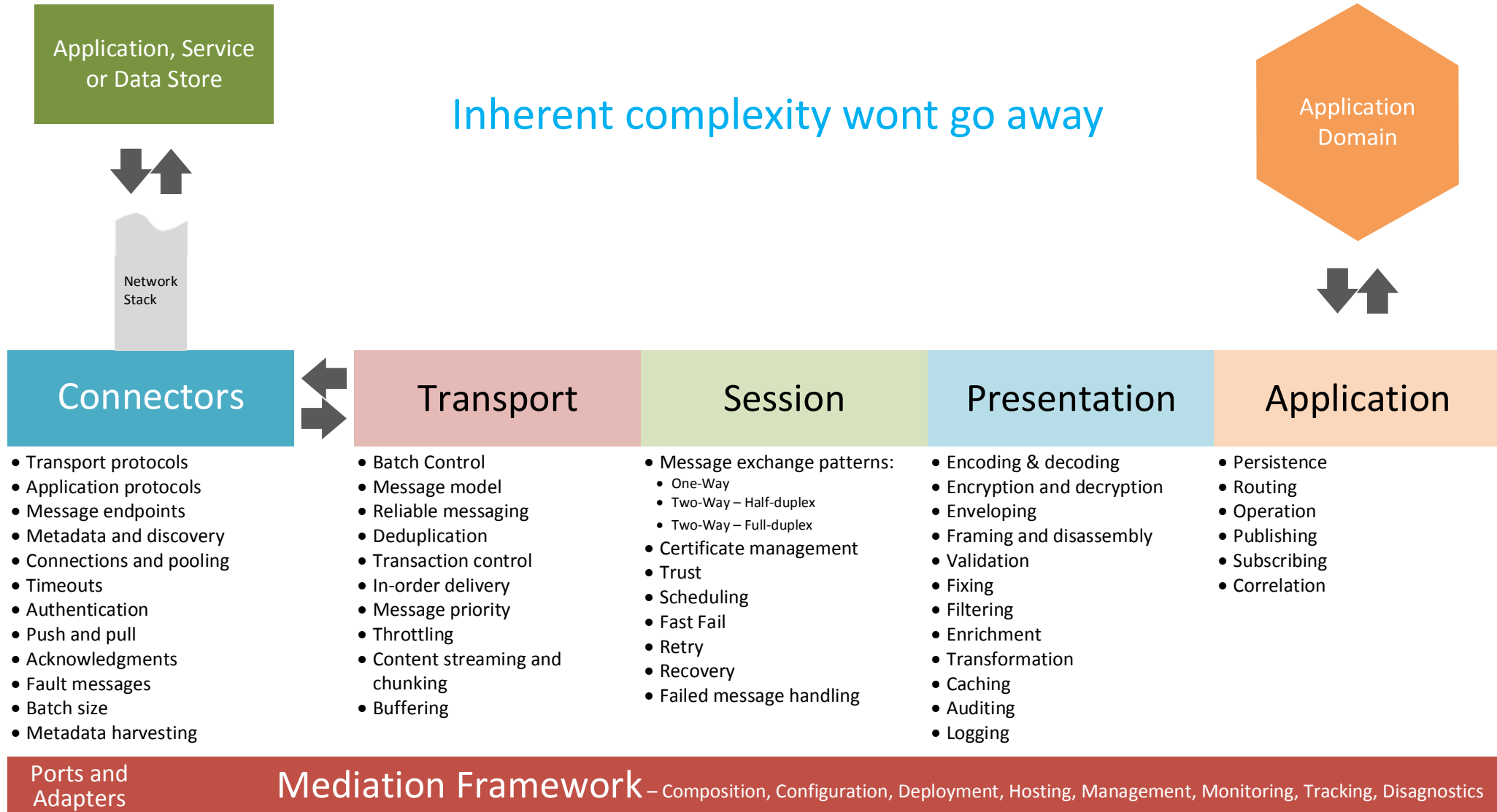
Microservice Integration



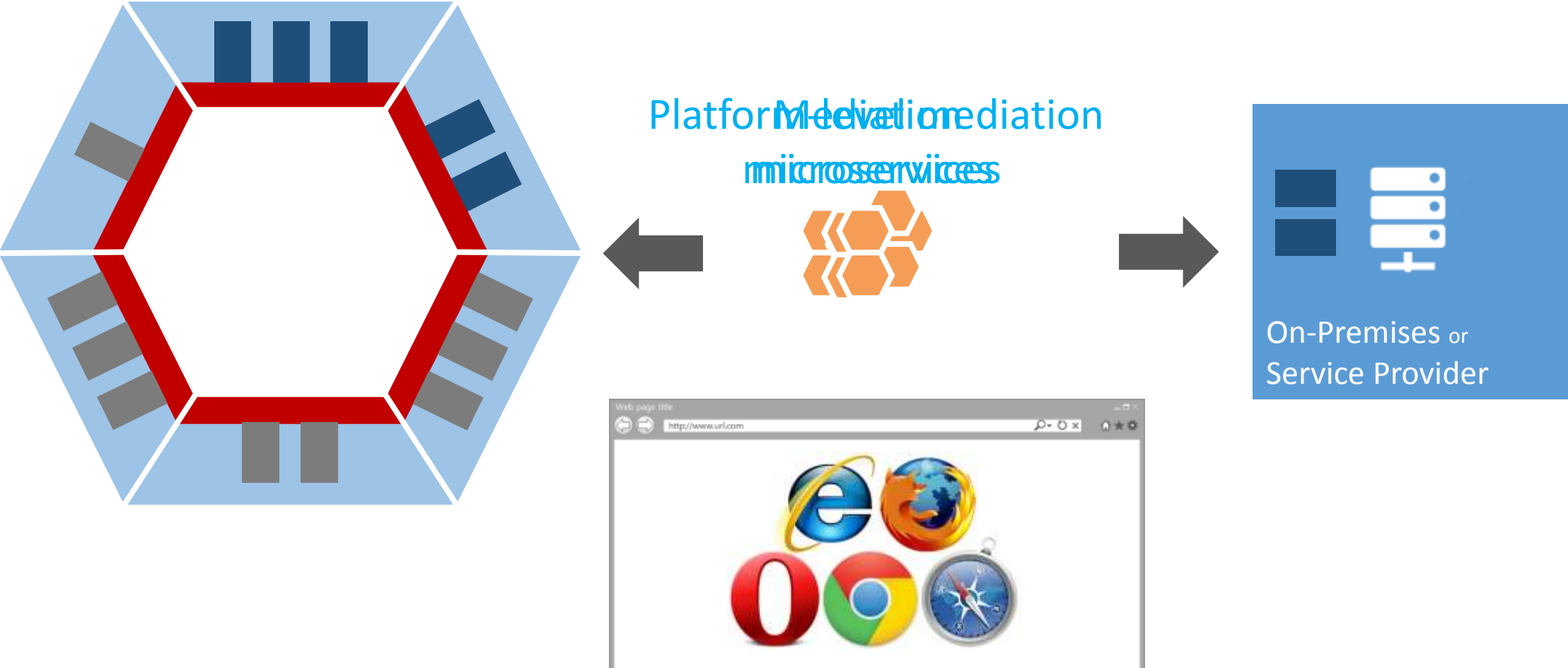
Microservice Integration



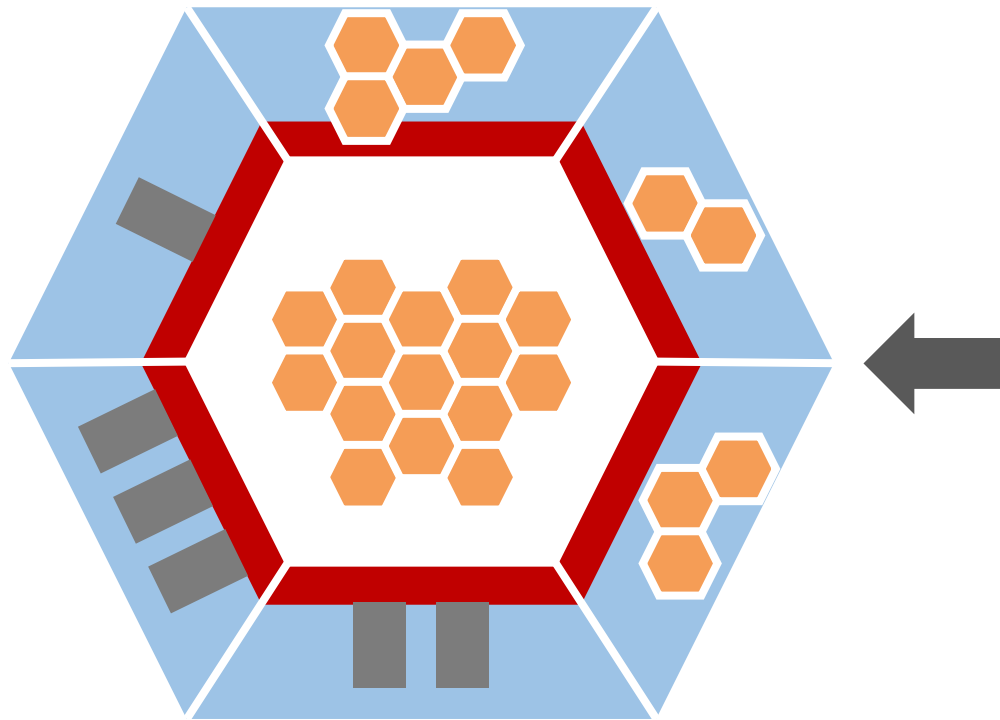
Microservice Integration



Microservice Integration



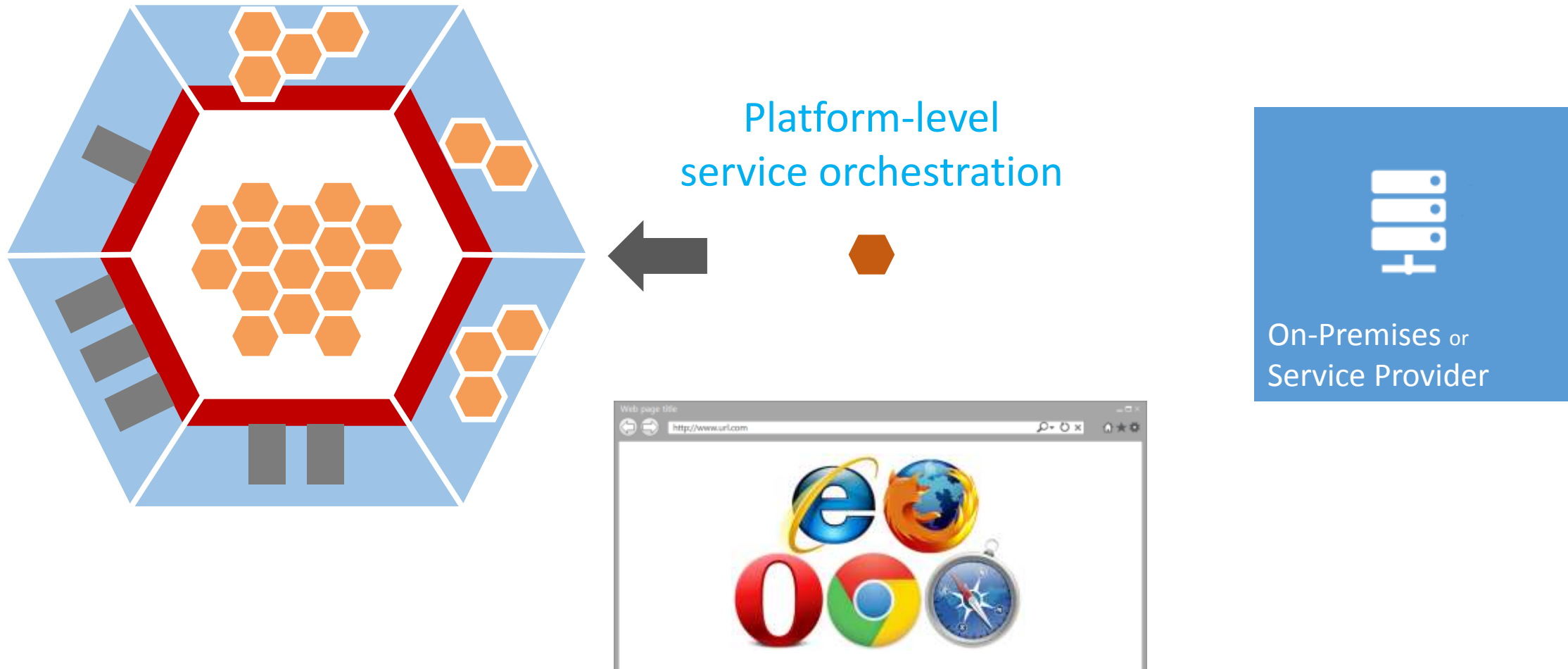
Microservice Integration



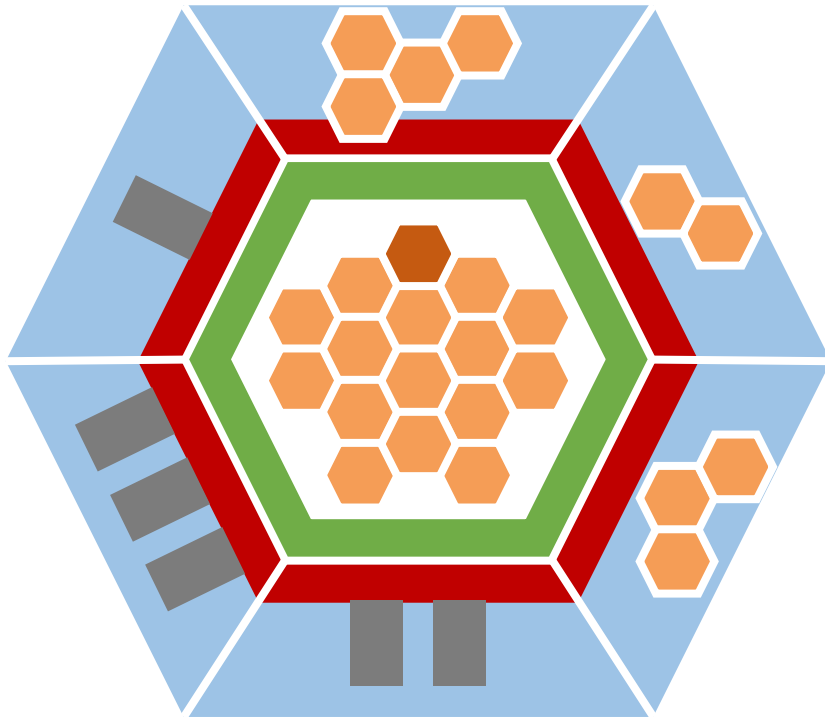
Fully-decoupled
business logic



Microservice Integration



Microservice Integration

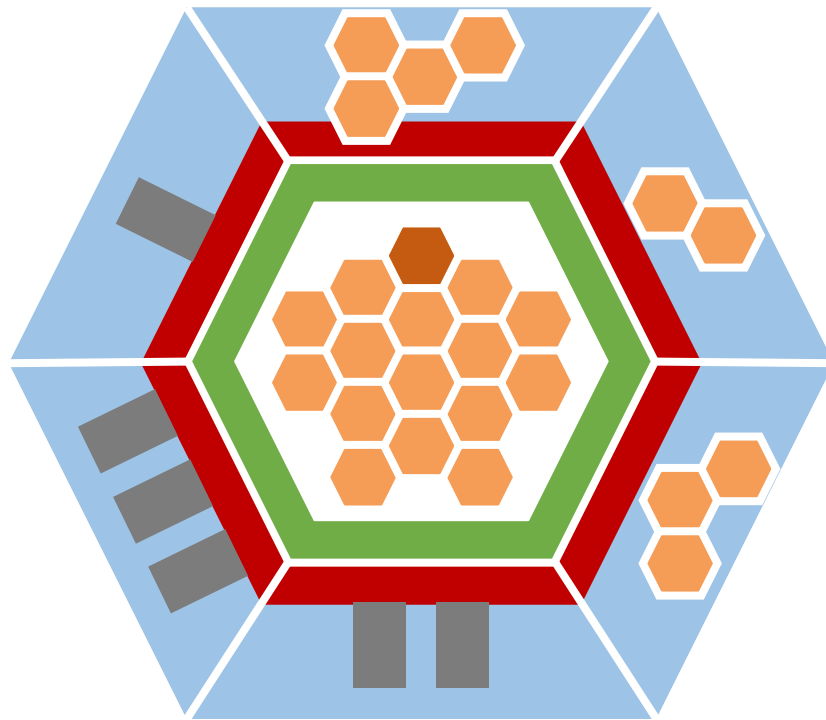


Route
by any means

- Direct
- Data stores
- Cache
- Queues
- Topics & subscriptions
- Event hubs



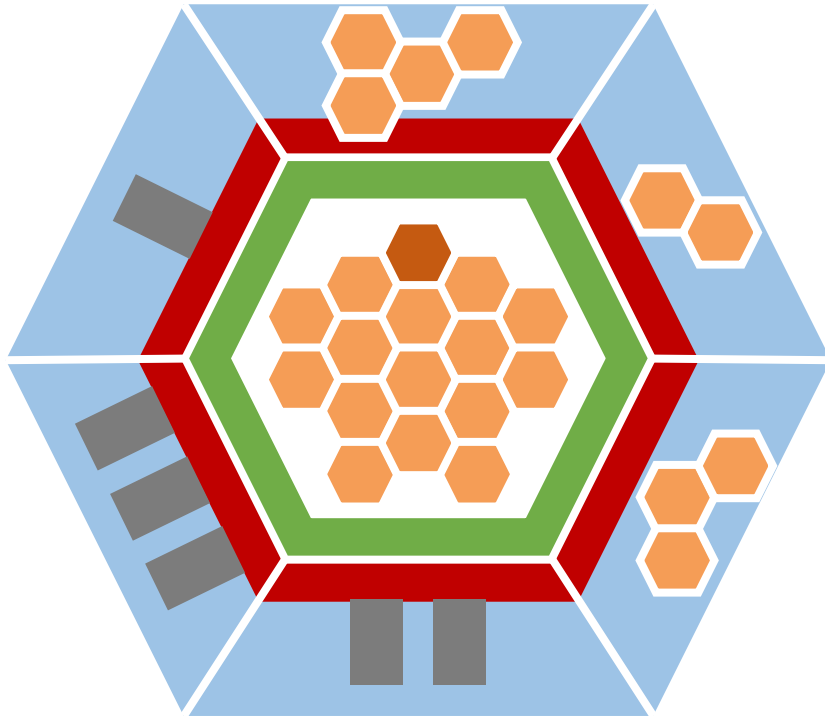
Microservice Integration



Platform-level
Monitoring & tracking



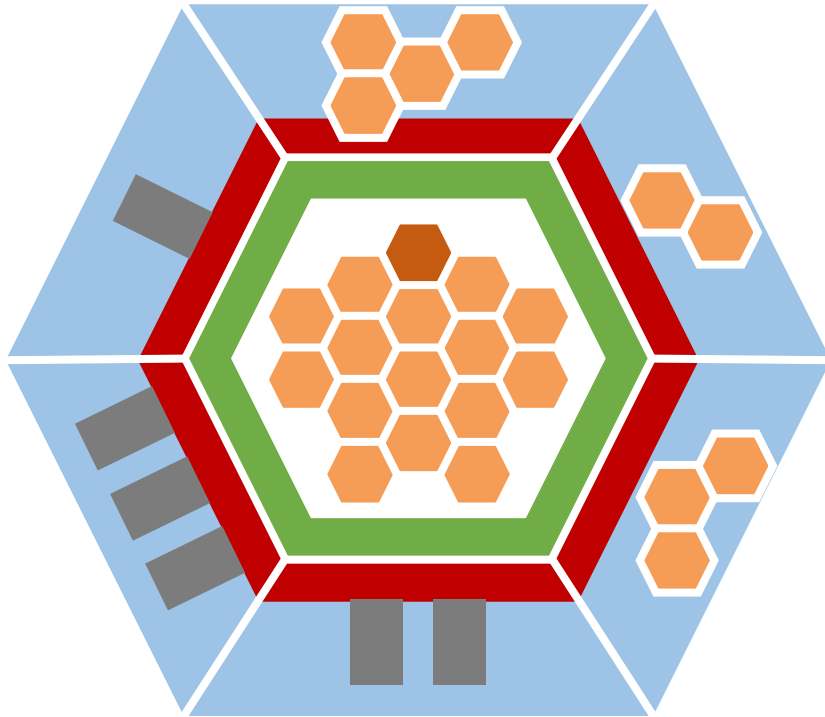
Microservice Integration



Favour Horizontal
Scaling



Microservice Integration



Technology
agnosticism



Thank You!

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