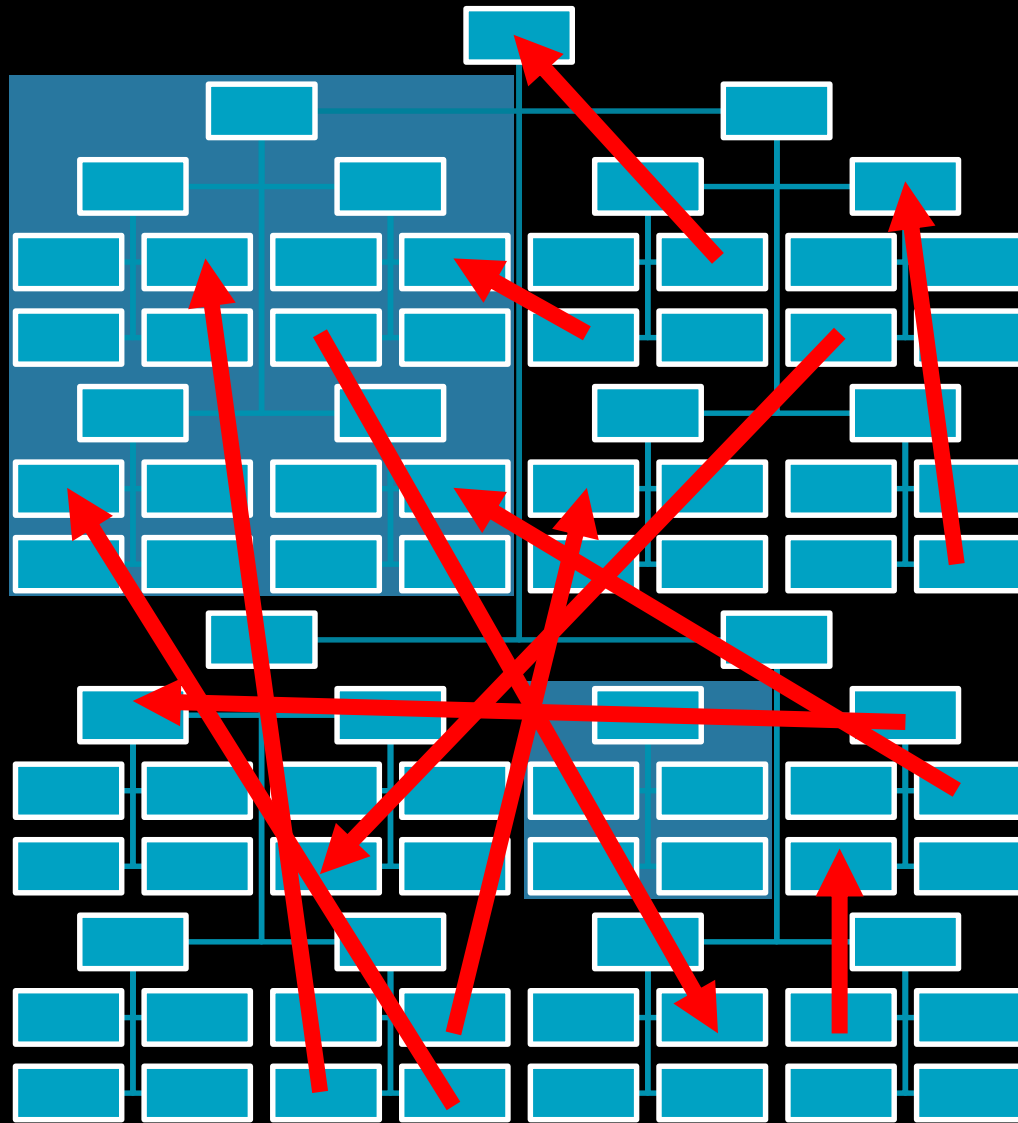
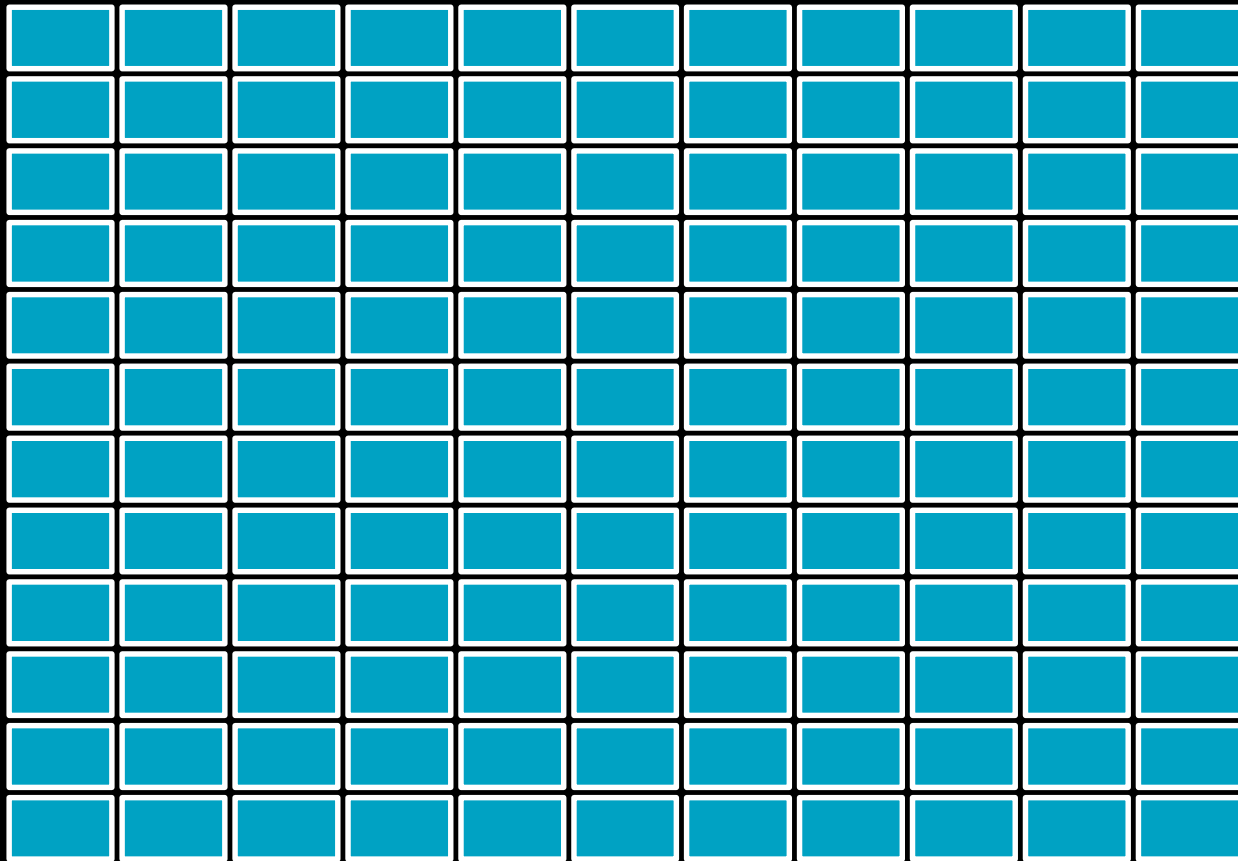


FINDING YOUR SERVICE BOUNDARIES

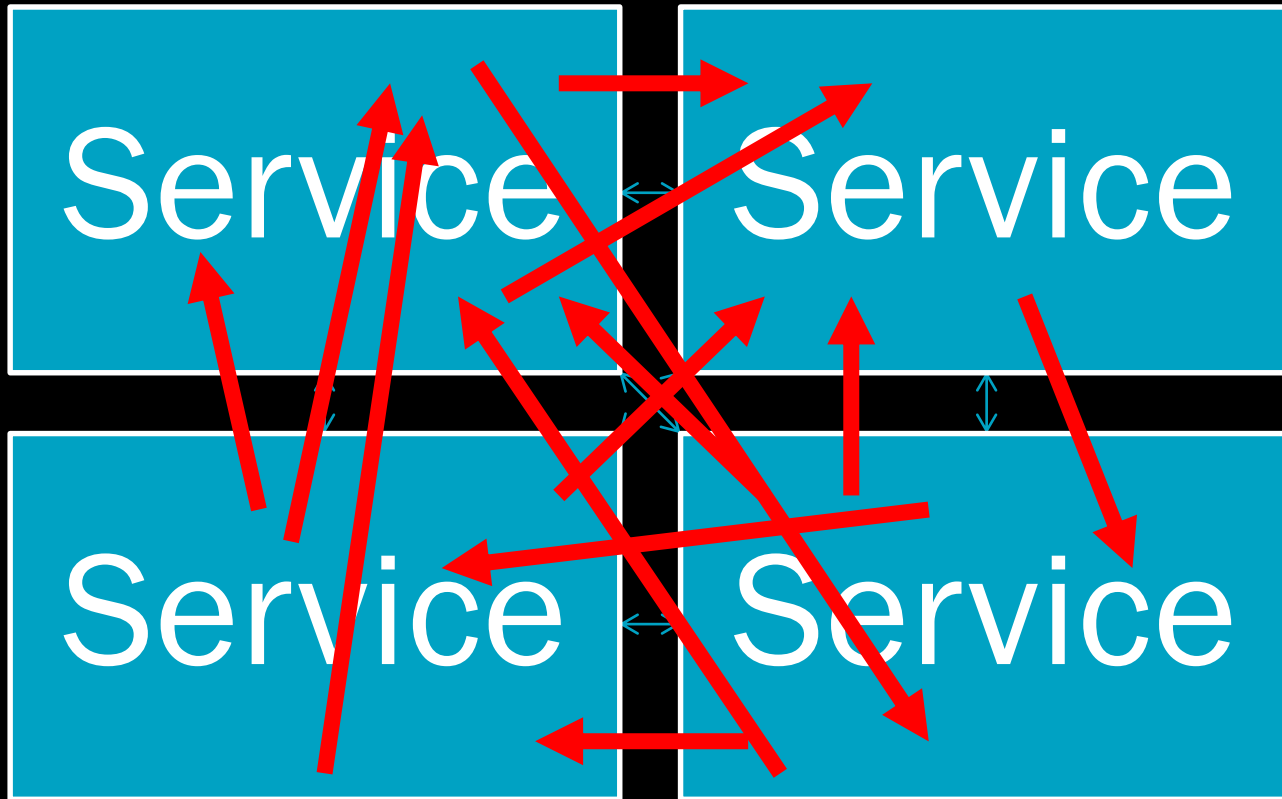
A PRACTICAL GUIDE

Adam Ralph





BIG BALL OF MUD



Machine

Machine

BIG BALL OF MUD

Machine

Machine

WORKFLOWS

@adamralph

Select a shipping address

Is the address you'd like to use displayed below? If so, click

Adam Ralph

Pulkovskaya Hotel & Conference
Centre
Ploshchad' Pobedy 1
Sankt-Peterburg 196240
Russia

Ship to this address

Edit

Delete

amazon.com

SIGN IN

SHIPPING & PAYMENT

GIFT OPTIONS

PLACE ORDER



Place your order in EUR

By placing your order, you agree to Amazon's [privacy notice](#) and [conditions of use](#).

Amazon Currency Converter is
Enabled. [Learn more](#)

Order Summary

Items:	EUR 43,19
Shipping & handling:	EUR 7,98
Total before tax:	EUR 51,17
Estimated tax to be collected:	EUR 0,00

Order total: EUR 51,17

Selected payment currency

☒ EUR ☐ USD

[\(Change card currency\)](#)

Applicable Exchange Rate

1 USD = 0.9994103744 EUR

(includes all Amazon fees and charges)

Please note that your country may charge import duties, taxes and fees that you may have to pay ahead of delivery. [Learn more](#)

[How are shipping costs calculated?](#)

[Why didn't I qualify for free shipping?](#)

Select a payment method

Your credit and debit cards



MasterCard ending in

Name on card

Udi Dahan

Expires on



Continue

You can review this order before it's final.

Estimated delivery: Jan. 12, 2017 - Jan. 19, 2017



Patterns of Enterprise Application Architecture

by Martin Fowler

\$43.22

Quantity: 1 [Change](#)

Sold by: Amazon Export Sales LLC



Add a gift receipt

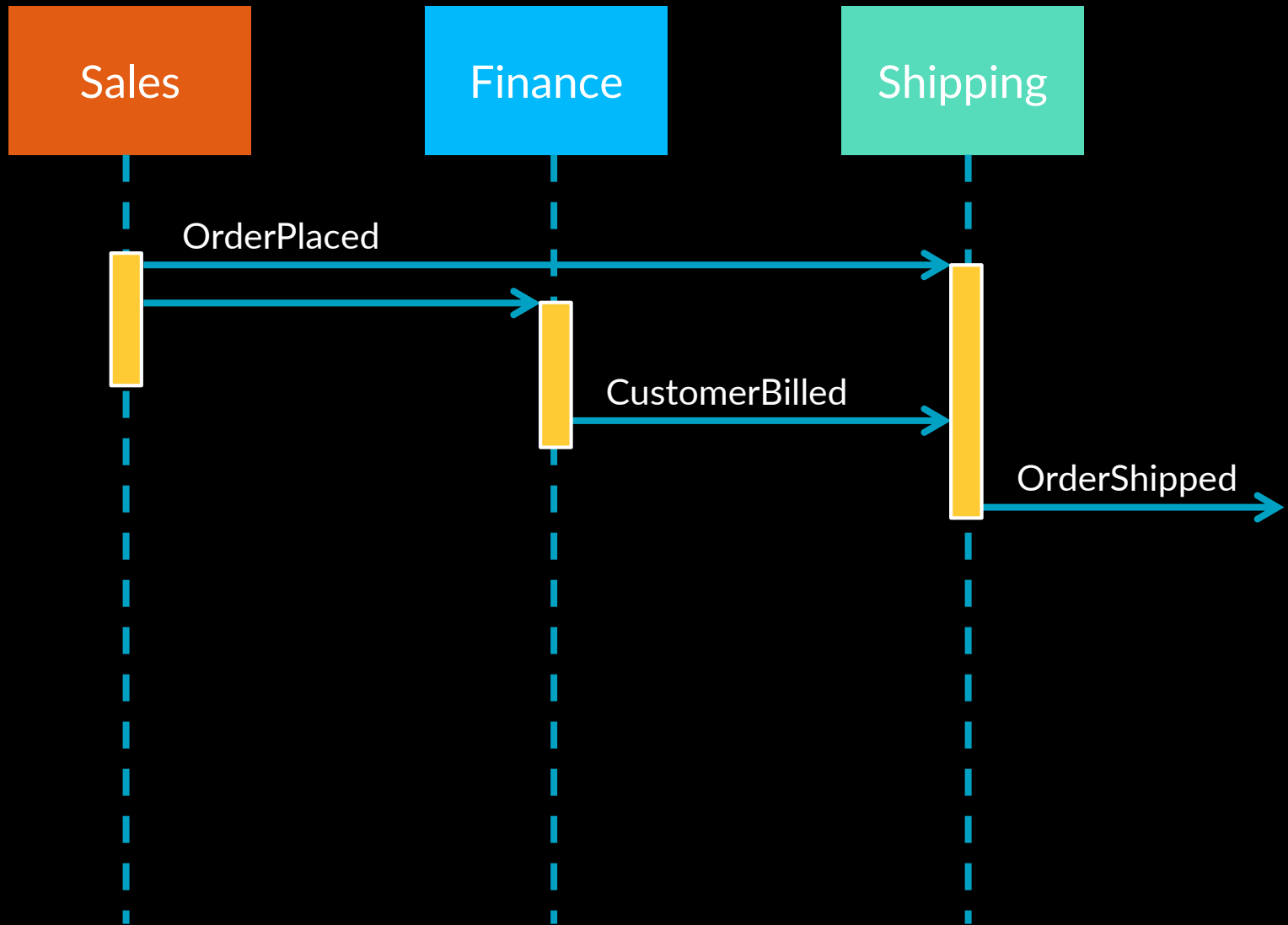
and see other gift options

Choose a delivery option:

- ☒ **averages 9-14 business days**
\$7.98 - AmazonGlobal Standard Shipping
- ☐ **averages 7-10 business days**
\$20.98 - AmazonGlobal Expedited Shipping
- ☐ **averages 2-5 business days**
\$49.98 - AmazonGlobal Priority Shipping

WORKFLOW MESSAGES

@adamralph



WORKFLOW MESSAGES

@adamralph

The screenshot shows the Amazon shopping cart interface. At the top, the Amazon logo and navigation links are visible. The cart contains one item: 'Patterns of Enterprise Application Architecture' by Martin Fowler, priced at \$50.04. The subtotal is also \$50.04. A 'Proceed to checkout' button is highlighted with an orange border. An orange arrow points from this button down to a text block at the bottom of the image. Below the cart, there is a section for 'Customers Who Shopped for Patterns of Enterprise Application Architecture Also Shopped for', featuring a book by Erich Gamma.


amazon Try Prime

All

Departments Browsing History Dennis's Amazon.com Today's Deals Gift Cards & Registry Sell Help

Hello, Dennis Account & Lists Orders Try Prime Cart

Shopping Cart

	Price	Quantity
 <p>Patterns of Enterprise Application Architecture by Martin Fowler Hardcover In Stock Eligible for FREE Shipping <input type="checkbox"/> This is a gift Learn more Delete Save for later</p>	\$50.04	1

Subtotal (1 item): \$50.04

The price and availability of items at Amazon.com are subject to change. The Cart is a temporary place to store a list of your items and reflects each item's most recent price. [Learn more](#)
Do you have a gift card or promotional code? We'll ask you to enter your claim code when it's time to pay.

✓ Your order qualifies for FREE Shipping
Choose this option at checkout. [See details](#)

Subtotal (1 item): \$50.04
☐ This order contains a gift


Proceed to checkout

or

[Sign in to turn on 1-Click ordering.](#)

Estimate your shipping and tax

Customers Who Shopped for Patterns of Enterprise Application Architecture Also Shopped for



Design Patterns: Elements of Reusable Object-Oriented Software
Erich Gamma
★★★★☆ 469
Hardcover
\$37.48 ✓ Prime
[Add to Cart](#)

Page 1 of 5

SetOrderId = 022032ba-1337-43a5-90c9-d48b58742c7

WORKFLOW MESSAGES

@adamralph

Shipping

Select a shipping address

Is the address you'd like to use displayed below? If so, click the address to select it.

Adam Ralph

Pulkovskaya Hotel & Conference
Centre
Ploshchad' Pobedy 1
Sankt-Peterburg 196240
Russia

Ship to this address

Edit

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amazon.com

SIGN IN

SHIPPING & PAYMENT

GIFT OPTIONS

PLACE ORDER



Sales

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Billing

Order Summary

Subtotal EUR 43,19
Shipping & handling EUR 7,98

Total before tax: EUR 51,17
Estimated tax to be collected: EUR 0,00

Order total: EUR 51,17

Selected payment currency

☒ EUR ☐ USD
(Change card currency)

Applicable Exchange Rate

1 USD = 0.9994103744 EUR
(includes all Amazon fees and charges)

Please note that your country may charge import
duties, taxes and fees that you may have to pay
ahead of delivery. [Learn more](#)

[How are shipping costs calculated?](#)

[Why didn't I qualify for free shipping?](#)

Billing

Select a payment method

Your credit and debit cards

☒ MasterCard ending in: 1234 5678 9010 1111

Name on card

Udi Dahan

Expires on

12/12/16 - 12/31/17

Continue

You can review this order before it's final.

Sales



**Patterns of Enterprise Application
Architecture**
by Martin Fowler
\$43.22

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Add a gift receipt

and see other gift options

Shipping

Choose a delivery option:

- ☒ **averages 9-14 business days**
\$7.98 - AmazonGlobal Standard Shipping
- ☐ **averages 7-10 business days**
\$20.98 - AmazonGlobal Expedited Shipping
- ☐ **averages 2-5 business days**
\$49.98 - AmazonGlobal Priority Shipping

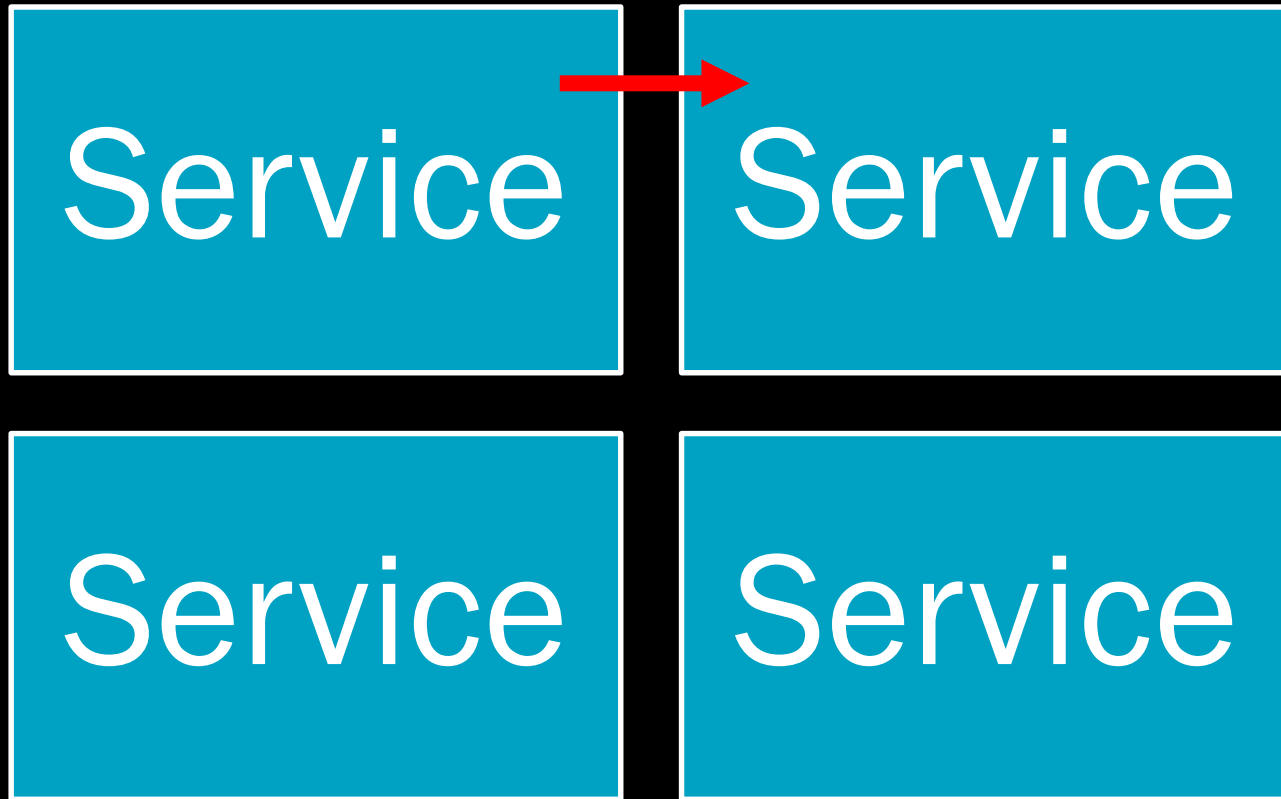
Machine

Machine

BIG BALL OF MUD

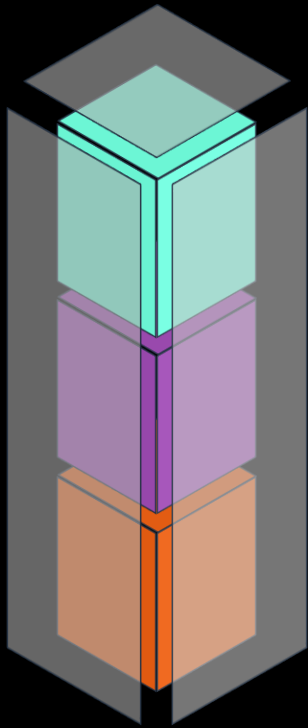
Machine

Machine



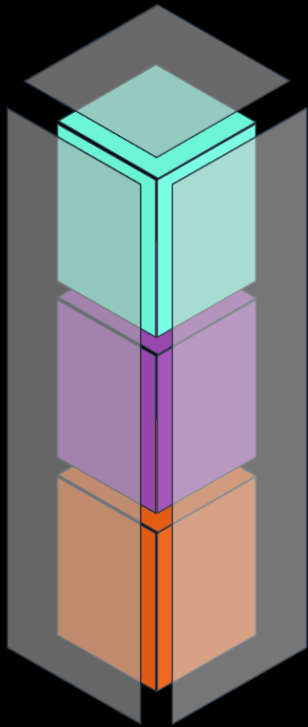
WHAT A SERVICE IS NOT

@adamralph



- A service that has only functionality is a function not a service:
Like calculation, validation, etc.
- A service that has only data is a database not a service:
Like [create, read, update, delete] entity
- HTTP/WSDL doesn't change logical responsibility

WHAT IS A SERVICE?

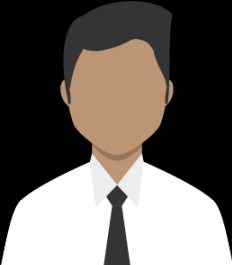















A service is the technical authority for a specific business capability

- All data & business rules reside within the service (boundary?)
- Nothing is “left over” after identifying services
- Everything must be in some service

SYSTEMS & SERVICES

@adamralph

		S1	S2	S3
	<div>MOBILE  Objective-C</div>			
	<div>BACK END Microsoft .NET</div>			
	<div>PORTAL  Java</div>			

DECOMPOSING A DOMAIN

@adamralph

```
public class Customer
{
    FirstName
    LastName
    Status
    // etc
}
```

```
public class Product
{
    Name
    Description
    Price
    // etc
}
```

- Customer's first name
- Customer's last name

RED

- Customer status
- Product price

GREEN

- Product name
- Product description

YELLOW

HOTEL



SEARCH

@adamralph

Dates

Fri, Apr 27, 2018 - Sun, Apr 29, 2018

Rooms & Guests

1 Room: 1 Adult/Room

Edit

✓ Current Room: Guest room, 1 King or 2 Double

ROOM DETAILS



Marriott Rewards Member Rate

[RATE DETAILS](#)

4,560 RUB / night
9,120 Total Per Room

Select

Regular Rate

[RATE DETAILS](#)

4,800 RUB / night
9,600 Total Per Room

Select

SELECT A ROOM

@adamralph

Review Reservation Details



Guest room, 1 King or 2 Double

[ROOM DETAILS](#)

Check in: Friday, April 27, 2018

Check out: Sunday, April 29, 2018

Room(s): 1

Guest(s) per room: 1

[EDIT](#)

Choose Room Features

▼ Summary of Charges

4800
RUB Avg./night

+

1,728.00
RUB Taxes and fees

11,328.00
RUB Subtotal

BOOK A ROOM

@adamralph

Stay Dates Fri Apr 27, 2018 - Sun Apr 29, 2018	Room Details Guest room, 1 King or 2 Double	Total for Stay 11,328.00 RUB
---	--	---------------------------------

Name

Title

(Optional) ▼

First name

Last name

Email address

Rewards Number (Optional)

Company name (Optional)

INSURANCE

@adamralph

Policy Service

Home insurance
Travel insurance
Car insurance

Claims Service

Home insurance
Travel insurance
Car insurance



Home Insurance

Home owner
Coverage
PolicyId
ClaimId

Travel Insurance

Insured persons
Coverage
PolicyId
ClaimId

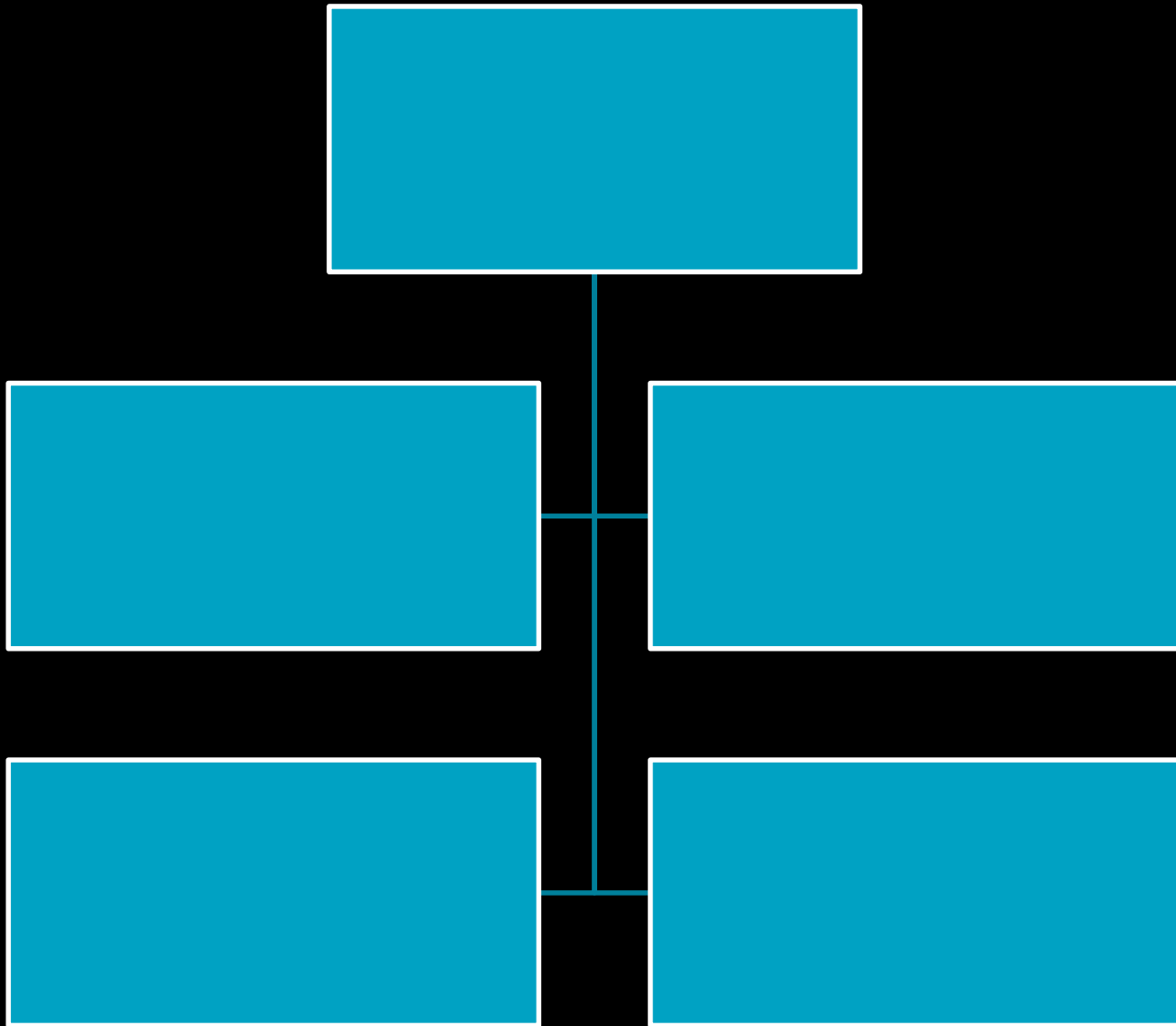
Automotive Insurance

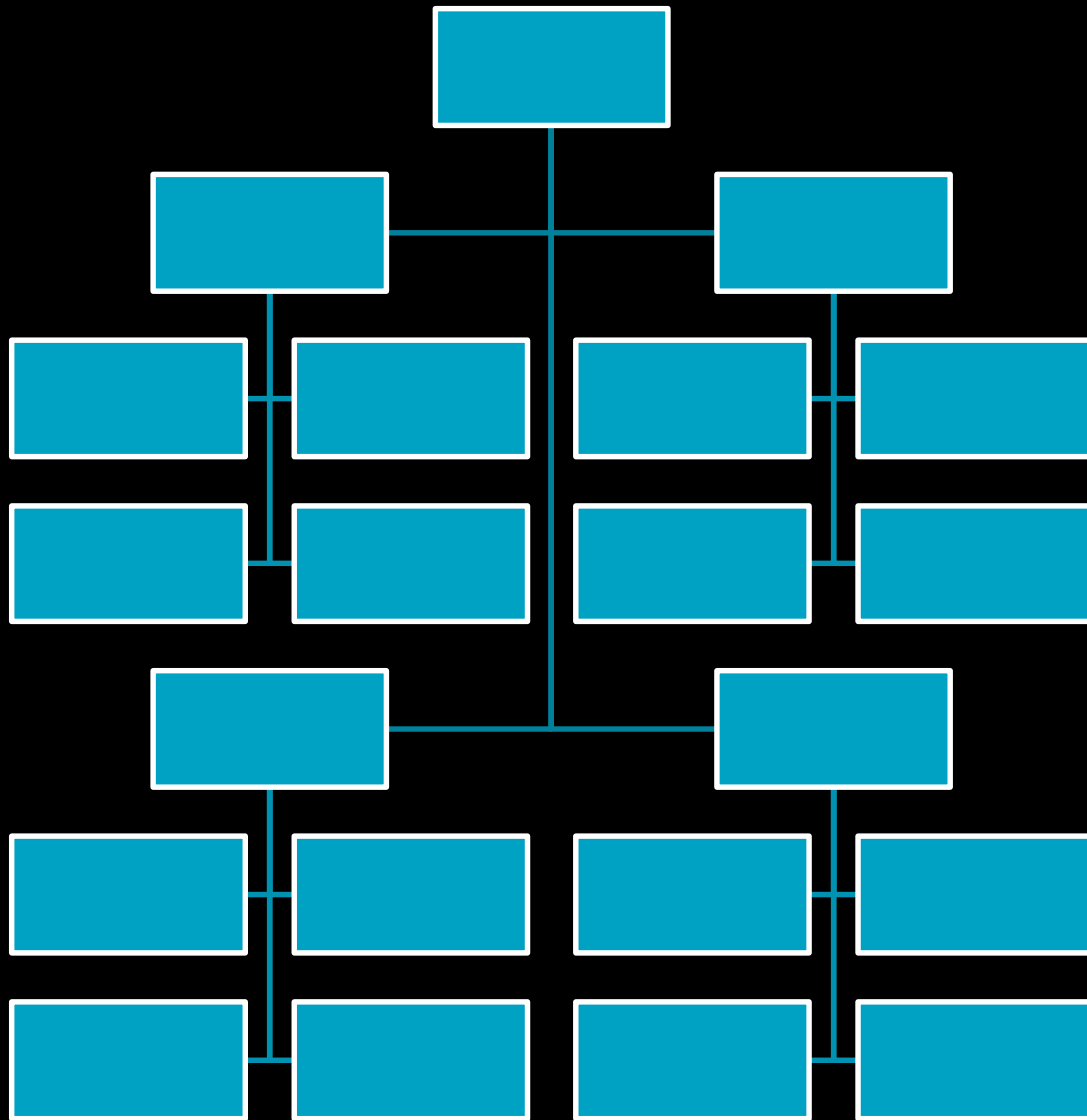
Insured vehicle
Coverage
PolicyId
ClaimId

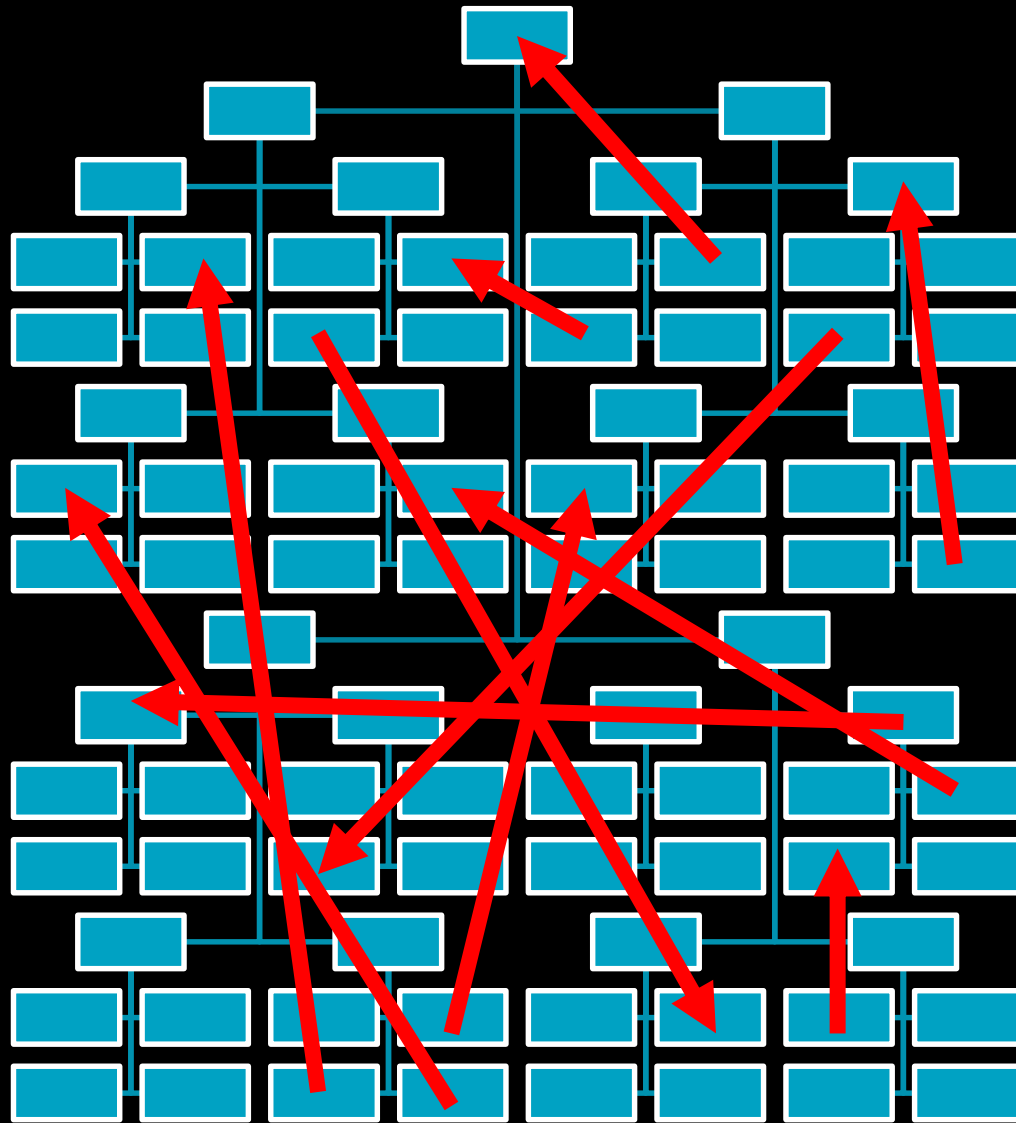
ORGANISATIONS

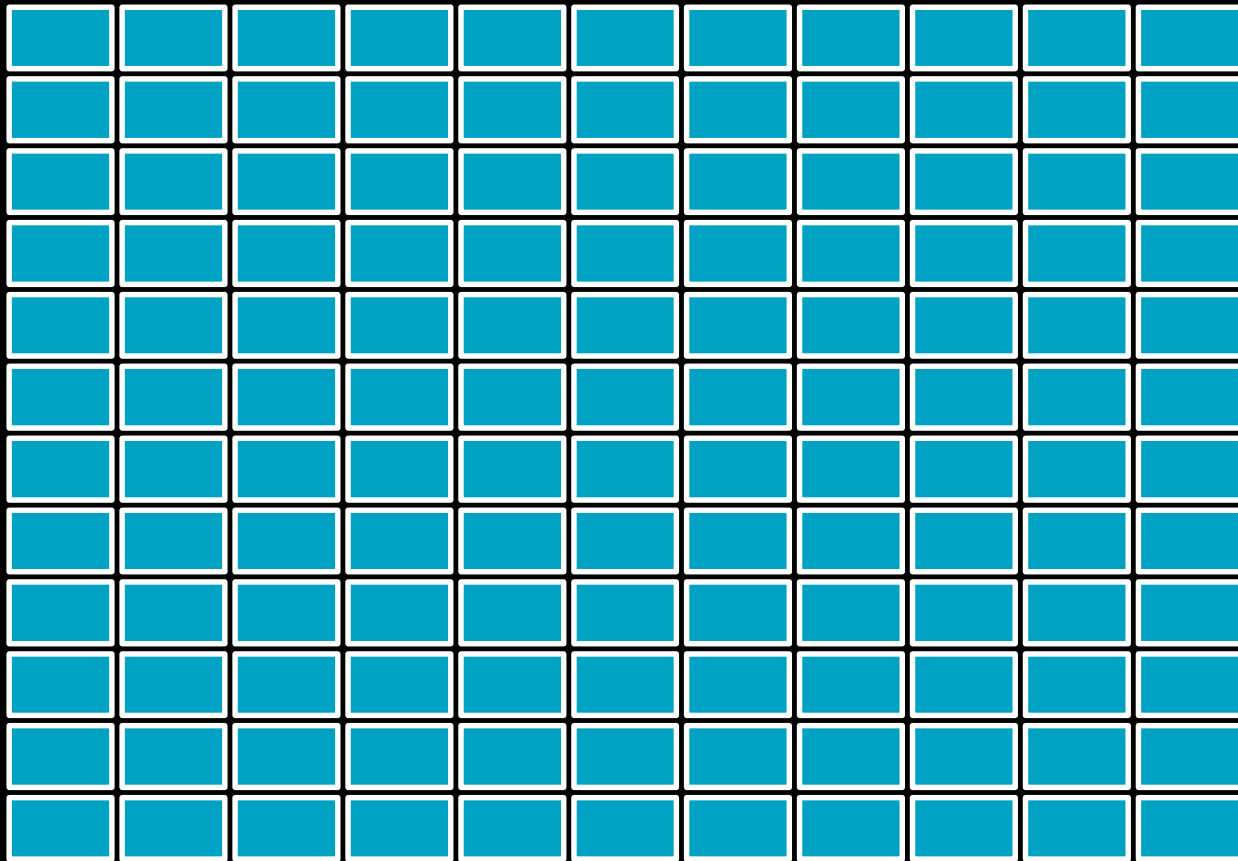
MICROSERVICES


BIG BALL OF MUD





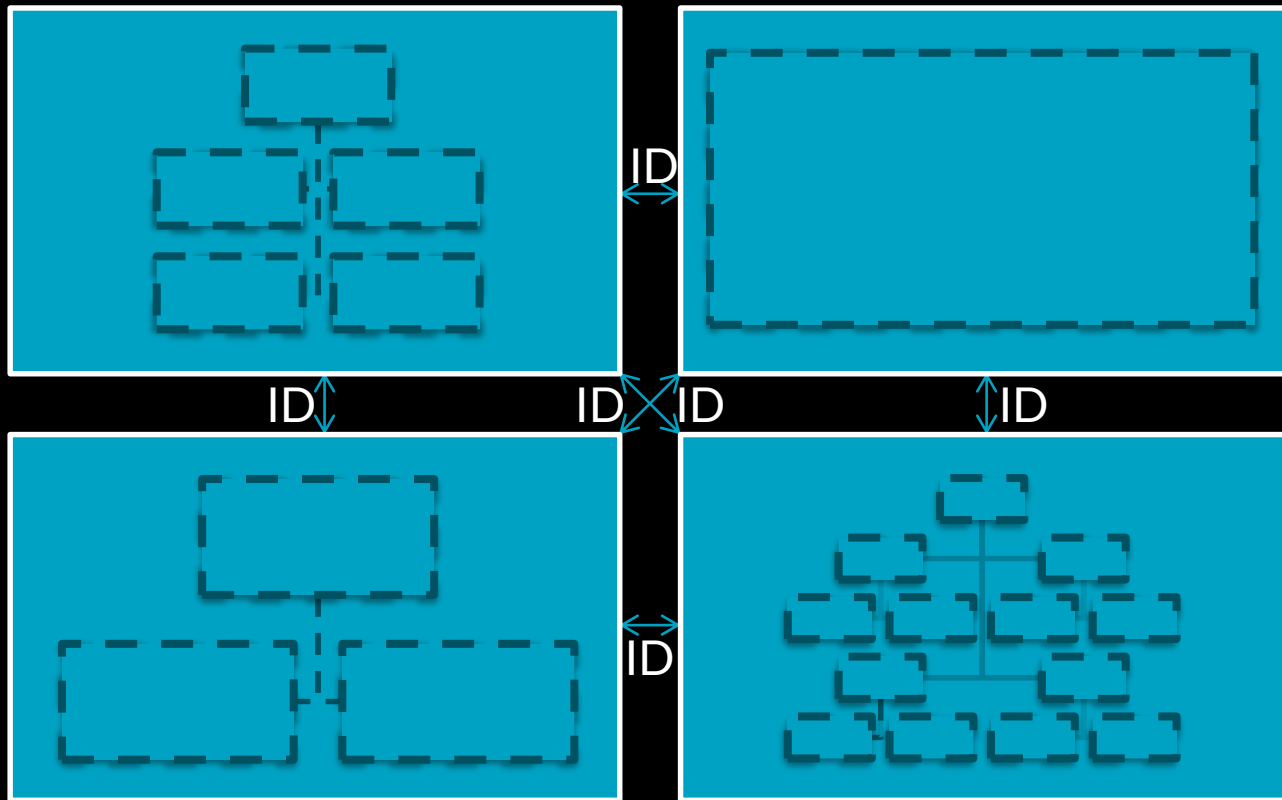






BIG BALL OF MUD

Microservices Edition™



FINDING YOUR SERVICE BOUNDARIES

A PRACTICAL GUIDE

Adam Ralph