The most important thing you need to know about Microservices

Damian Maclennan - @damianm

damian@damianm.com

Agenda

- Background and Context
- A brief history of microservices
- Where does it go wrong?
- The most important thing!
- Some examples
- Yeah ok, let’s talk tech stack
- Conclusion
- Q&A

Instant Feedback

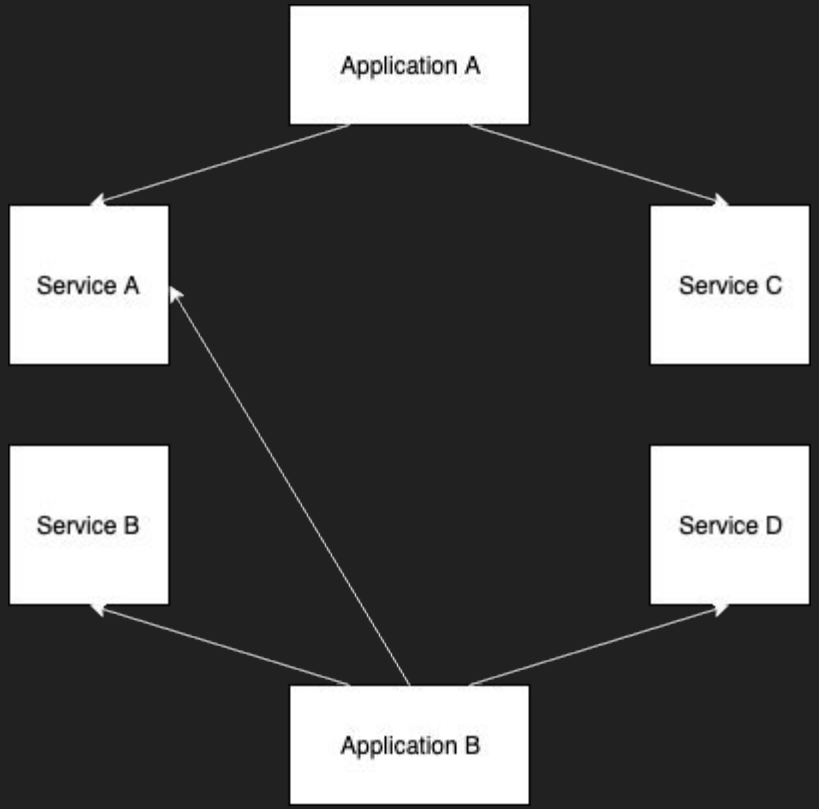
My experience with microservices

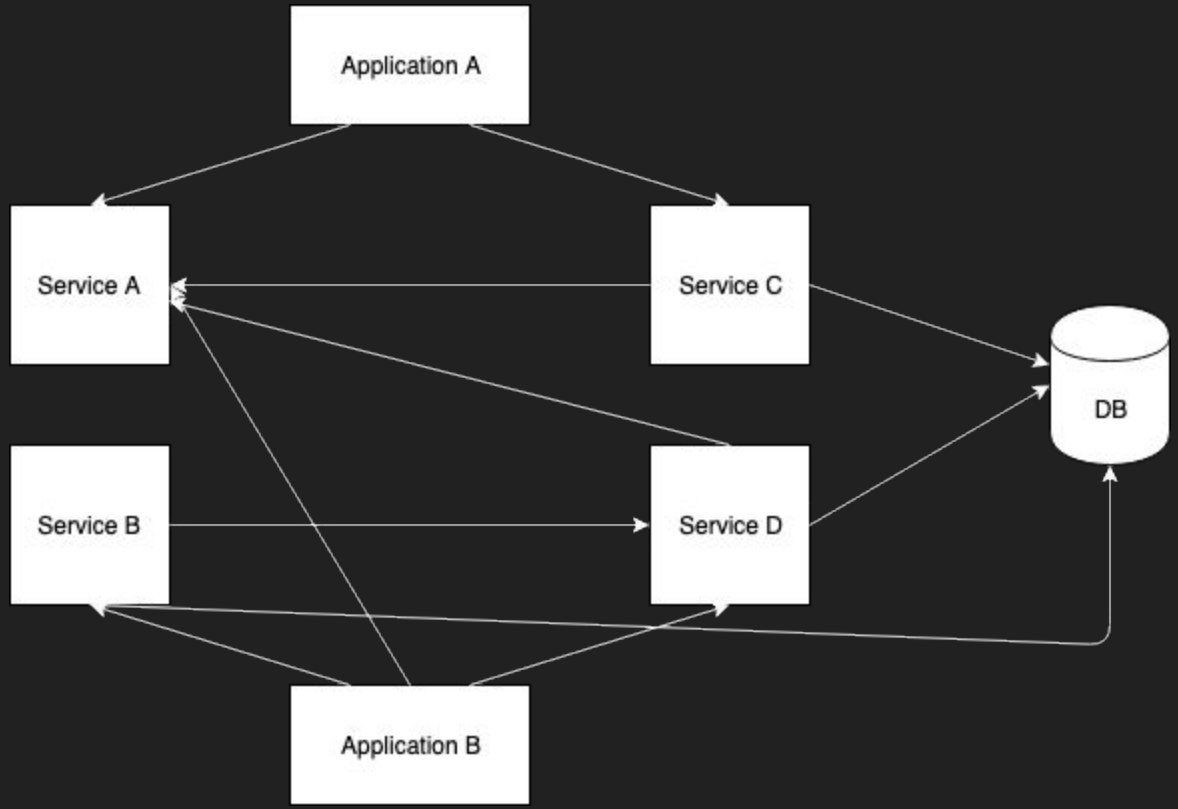
Why I wrote this talk

THIS IS FINE.

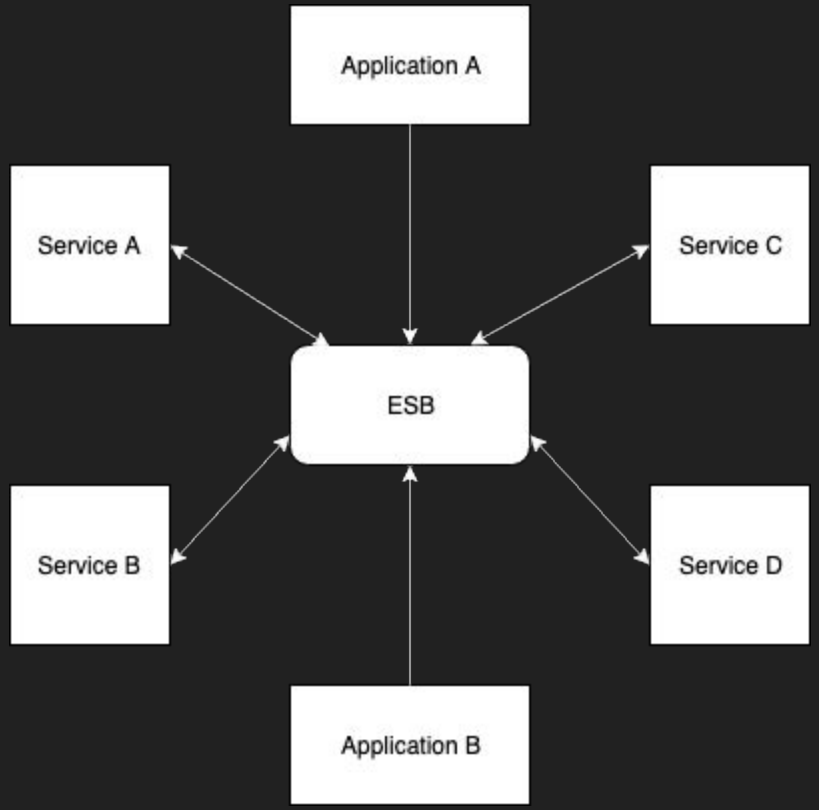
A Brief History of Microservices

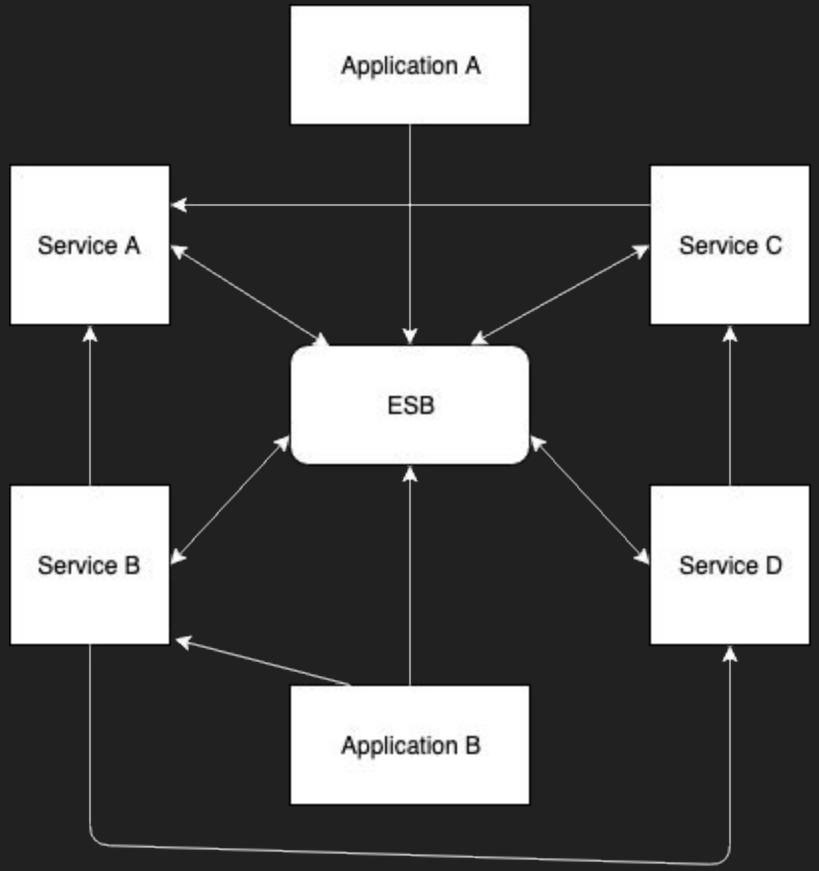
SOA


Application A
Service A
Service C
Service B
Service D
Application B


Application A
Service A
Service C
DB
Service B
Service D
Application B

ESBs


Application A
Service A
Service C
ESB
Service B
Service D
Application B


Application A
Service A
Service C
ESB
Service B
Service D
Application B

THIS IS FINE.

HTTP and REST

Where does it all go wrong?

Don’t get caught up in the tech

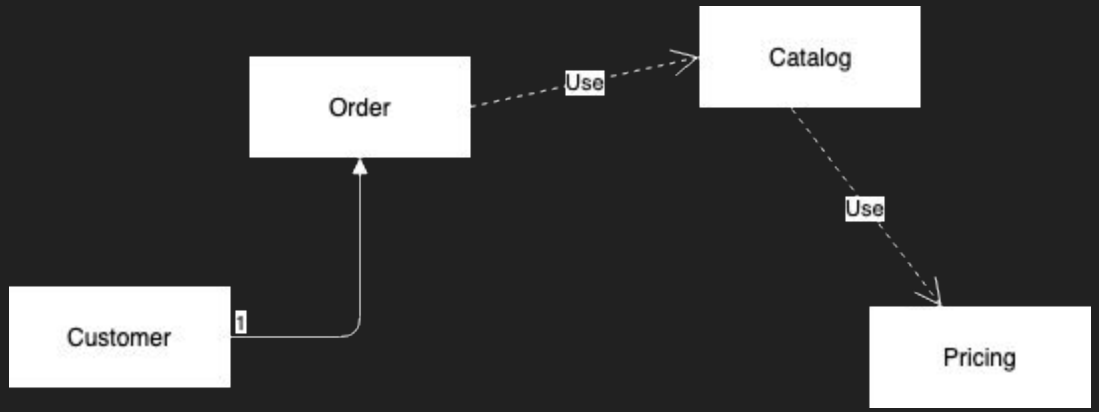
Evolutionary Architecture
Vs
Big Design Up Front

Getting the modelling wrong

Common Smells

Service per Infrastructure Function

Service per Aggregate Root


Order
Use
Catalog
Use
Customer
1
Pricing

Symptoms

Fallacies of Distributed Computing

The One Thing You Need To Know

Modelling

Domain Driven Design

Bounded Contexts

It’s about the people and the interactions

Some real world examples

Booking a holiday

A giant bookshop

Coffee!

Look for the Who and How not the What

Event Storming

Let’s talk transports

Why I like messaging

REST as an API Surface

The web is build on HTTP

Some Conclusions

Learning from History

Microservices and SOA have the same roots

Look at the people and business processes

Never forget, delivering value is the goal

Questions?