From Monolith To Microservices — And Beyond

Masking Technology
hello@masking.tech
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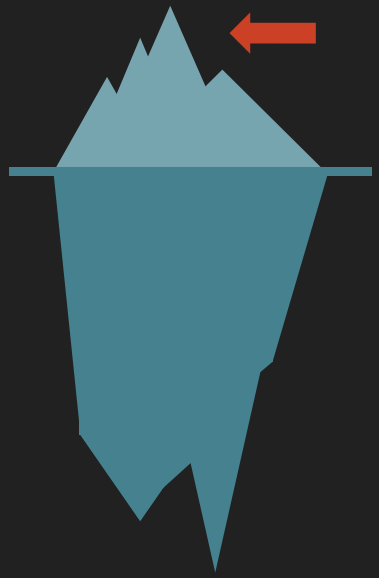
Masking Technology

Architecture



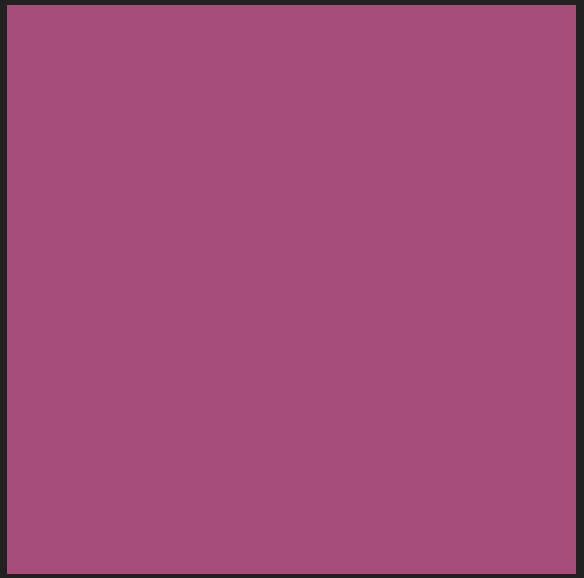
Abstract

Present time

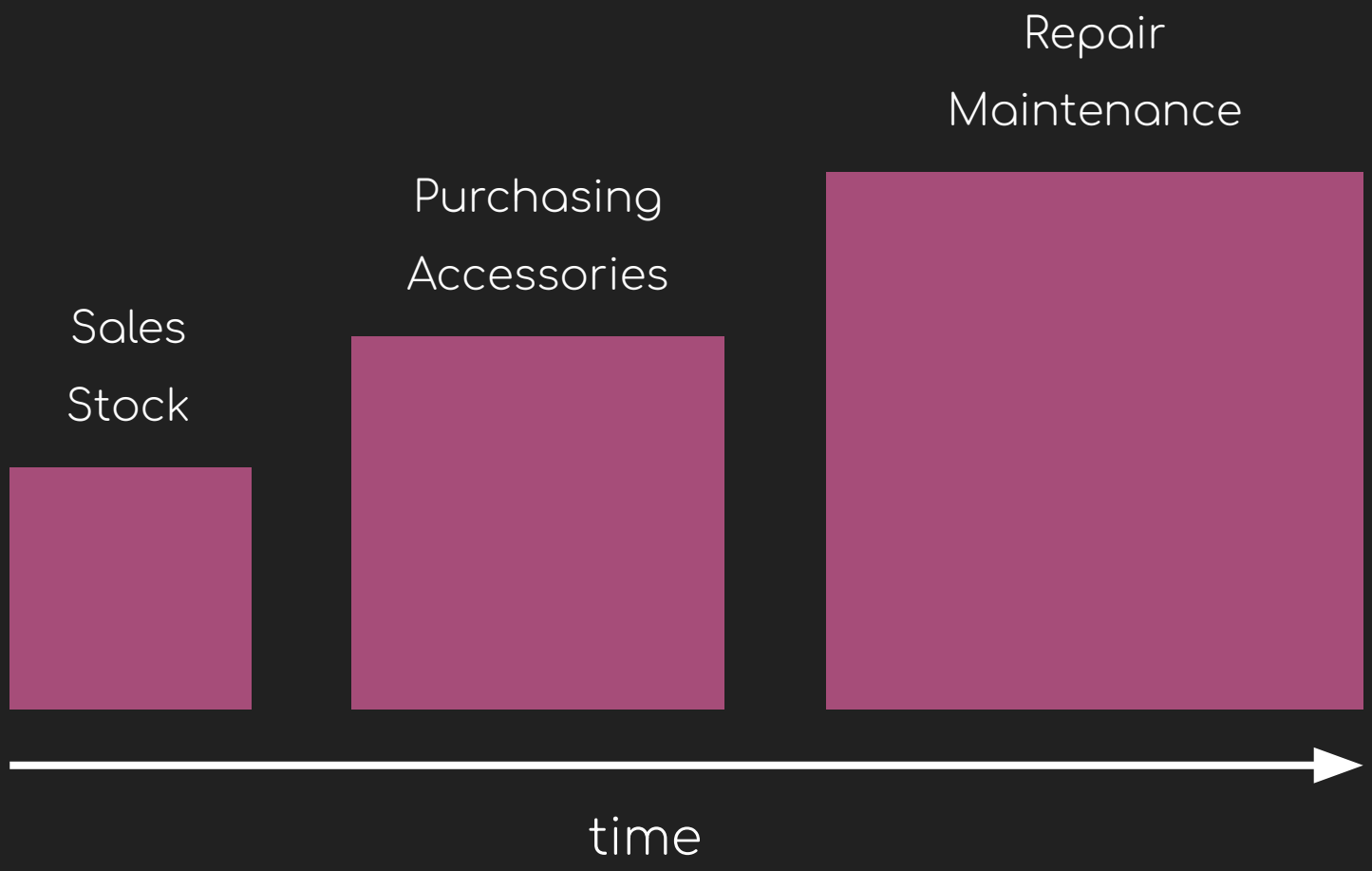
Startup

Sales
Stock

time
budget



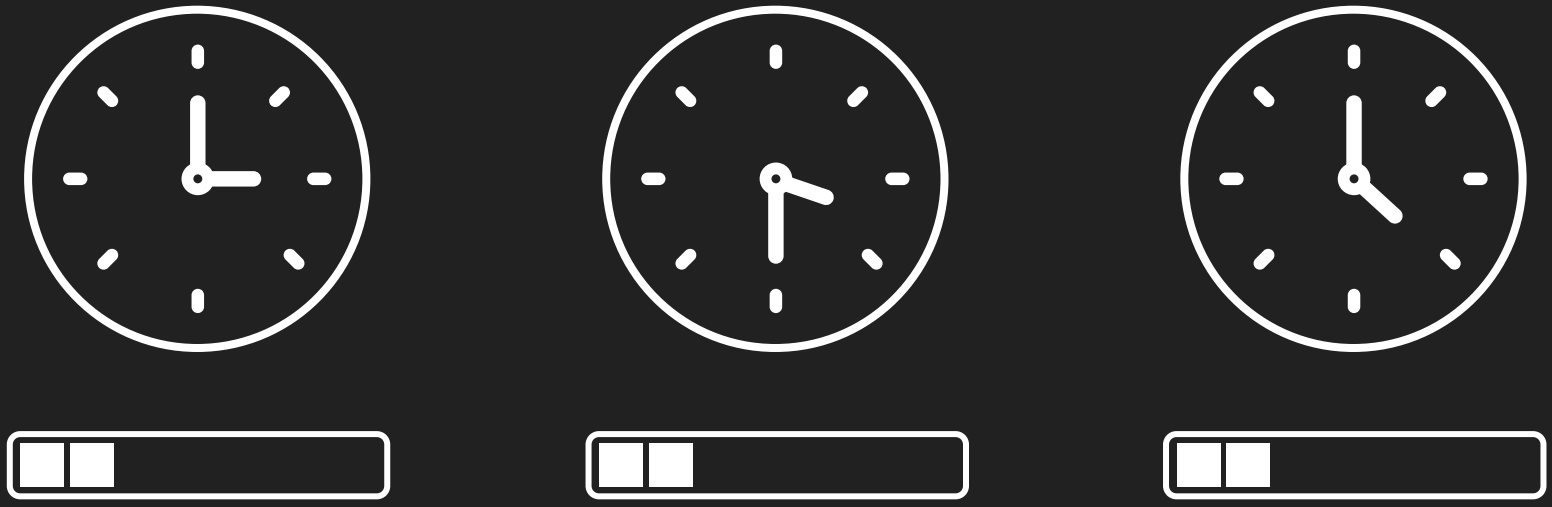
Monolith


Repair
Maintenance
Purchasing
Accessories
Sales
Stock
time

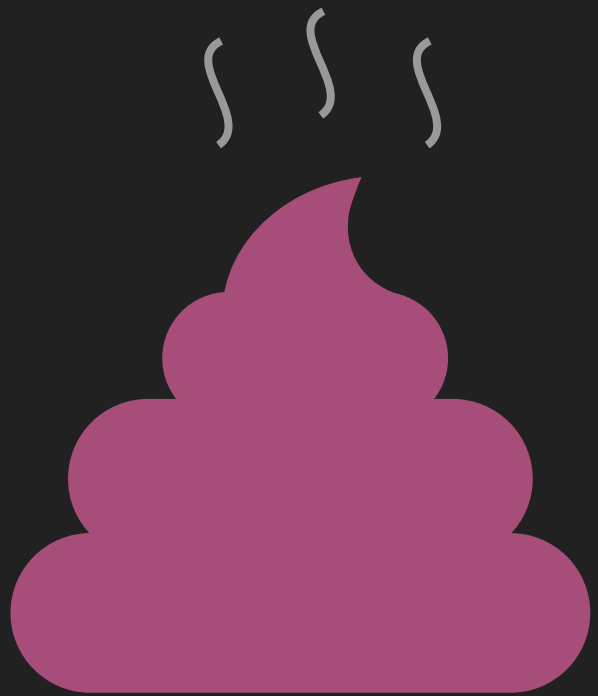
Expansion

Planning
Services
...

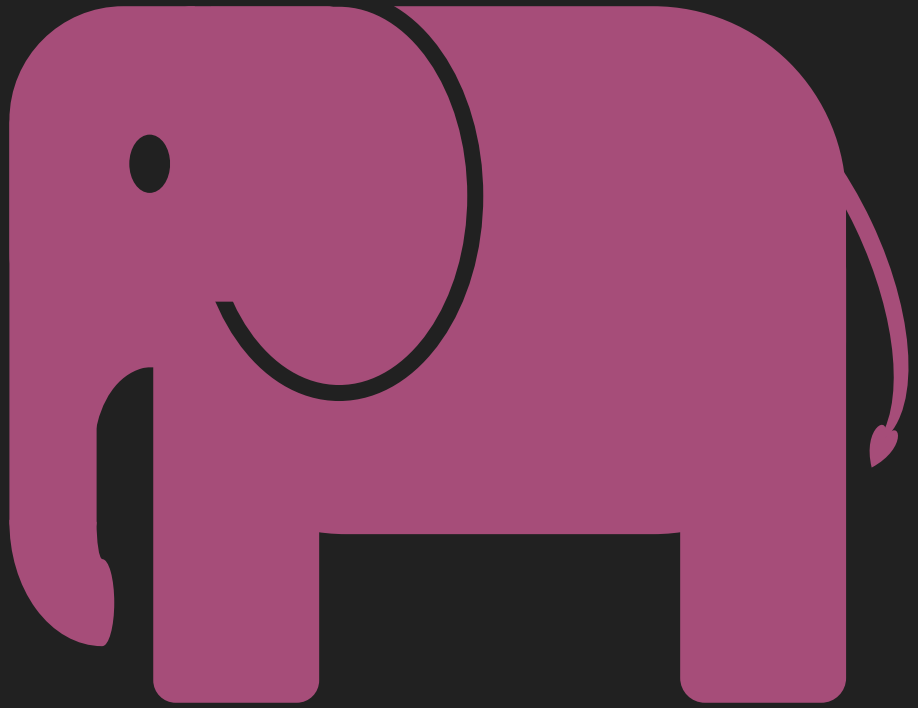
budget
time

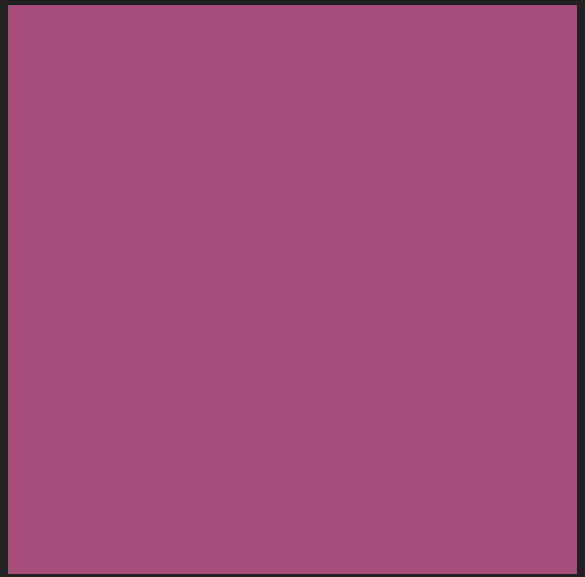

Building...
Testing...
Deploying...

Big … of …

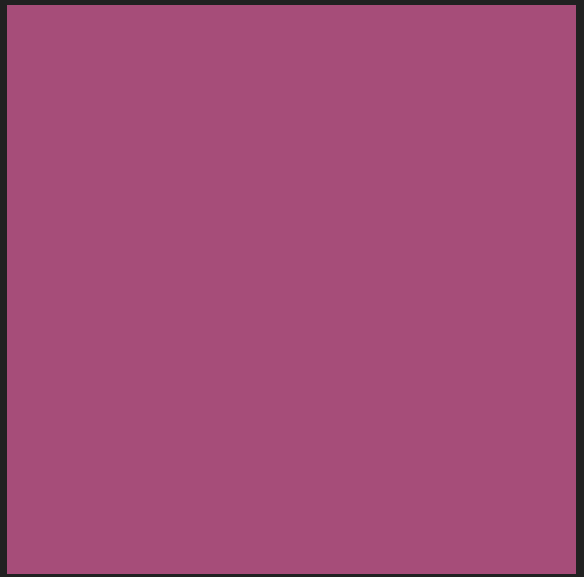


How to eat an ...



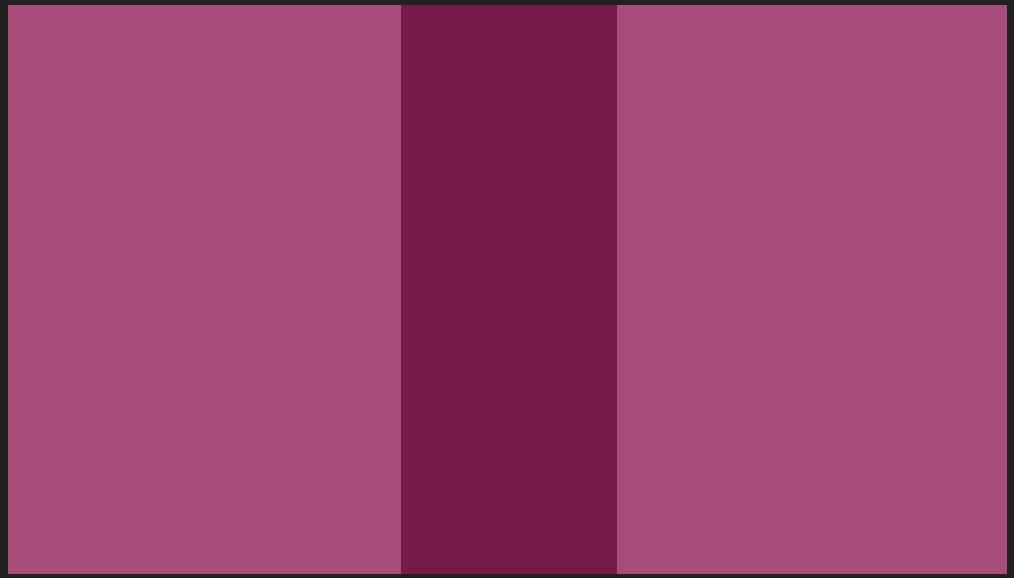


Sales



Rental

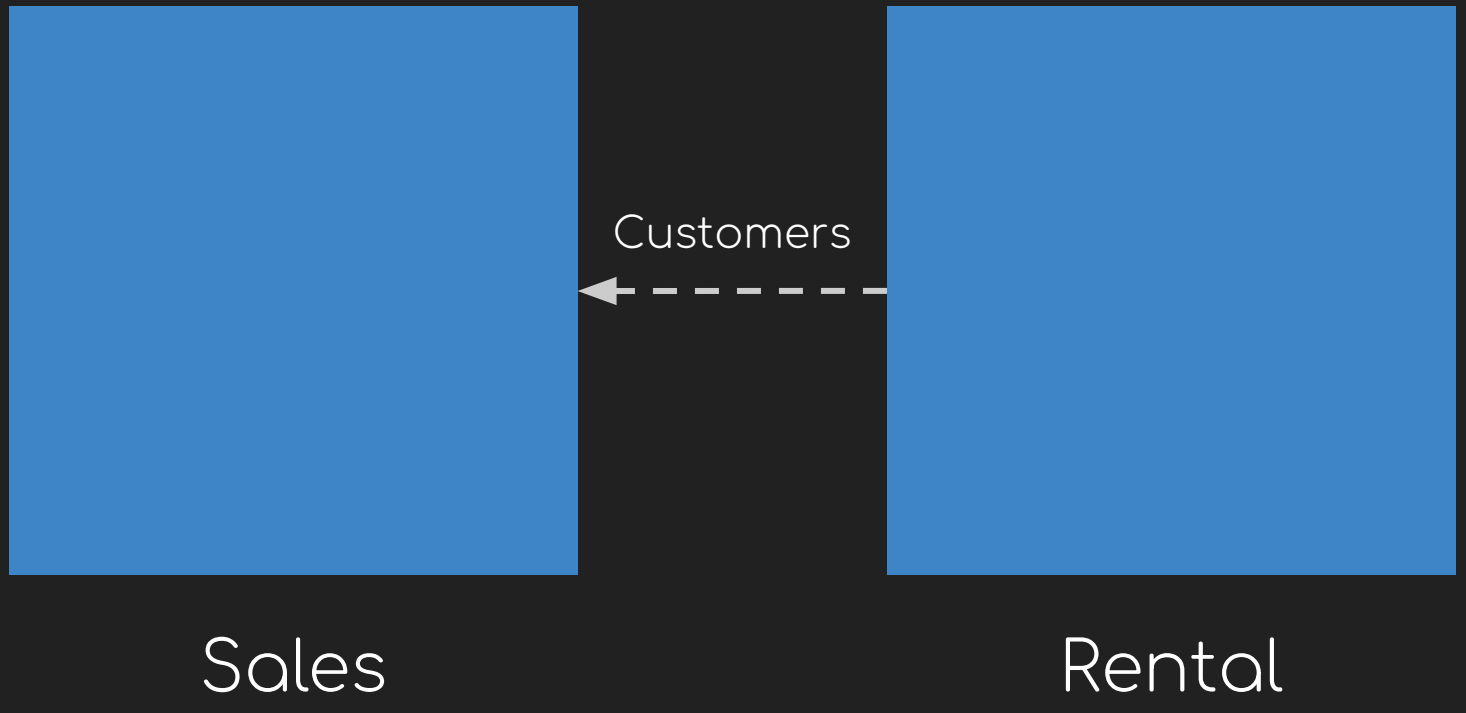
Overlap?



Sales

Rental

Service Oriented Architecture



Microservices

Sales

Products

Customers

Rental

Maintenance

Purchasing

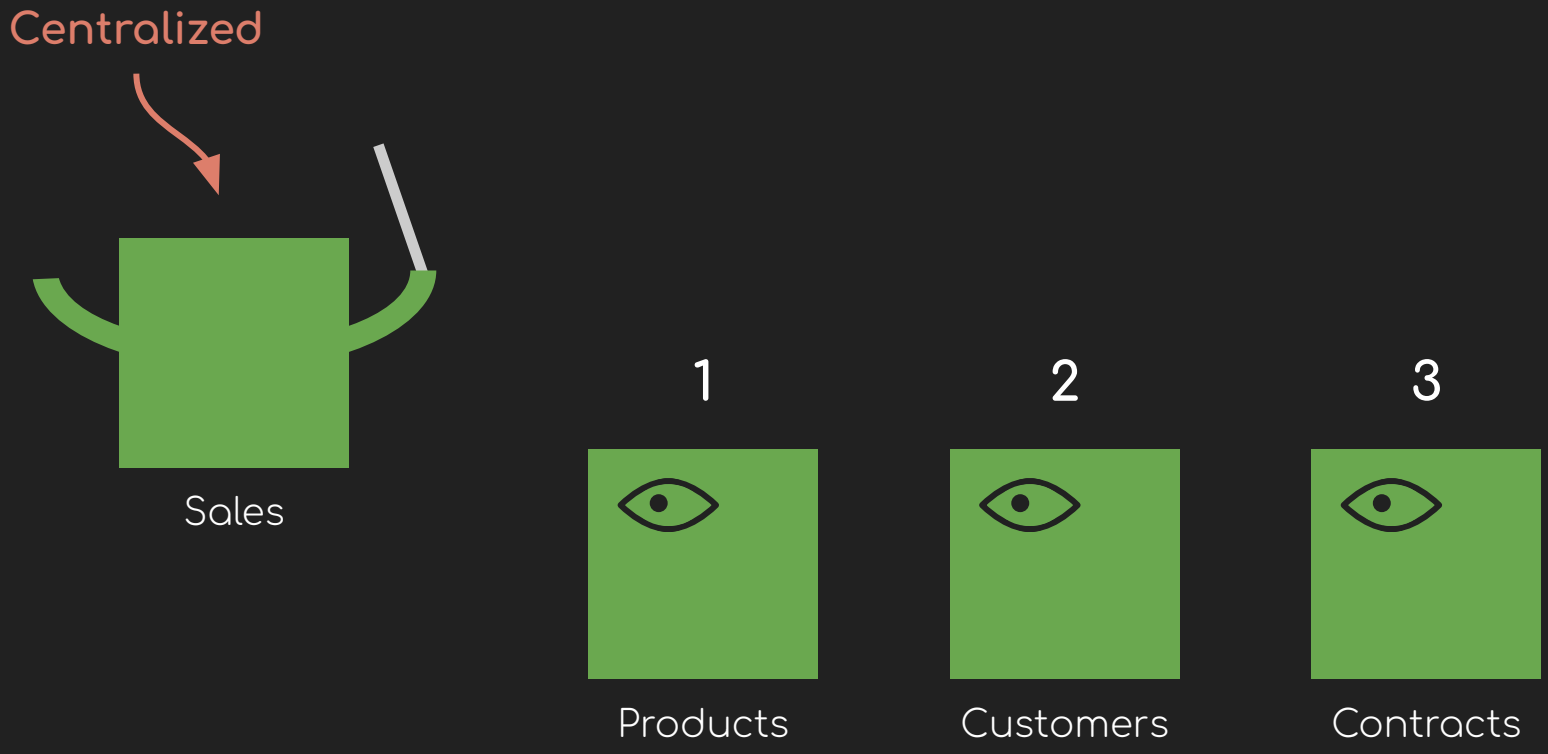
Contracts

Employees

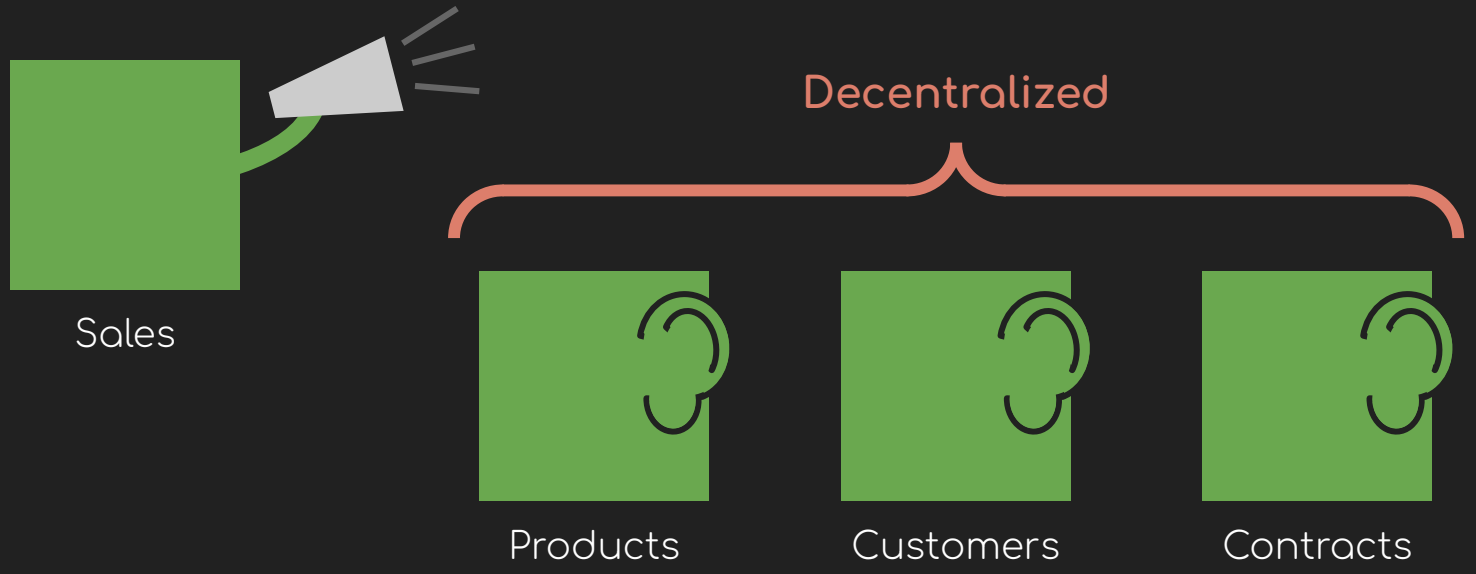
Planning

...

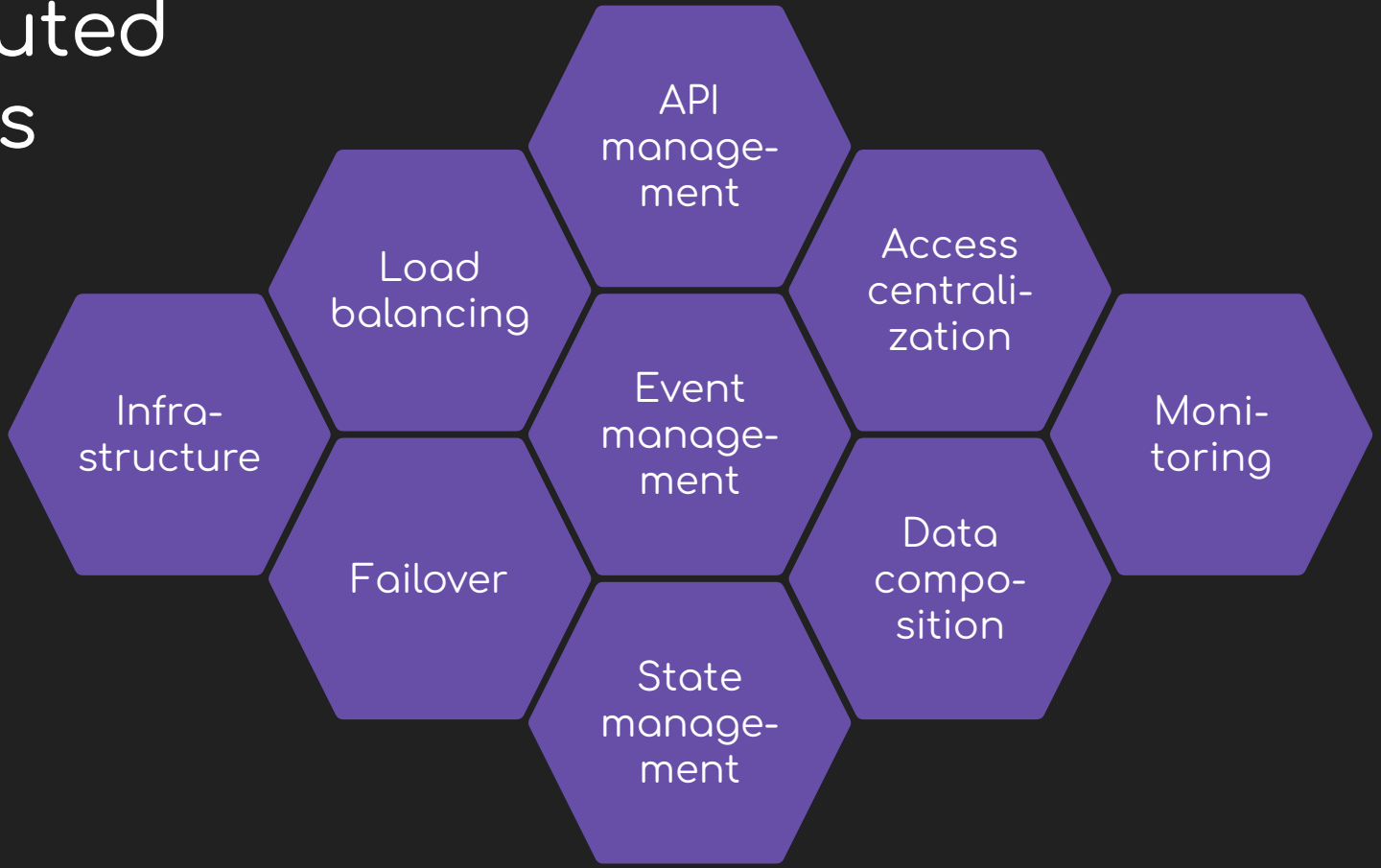
Orchestration

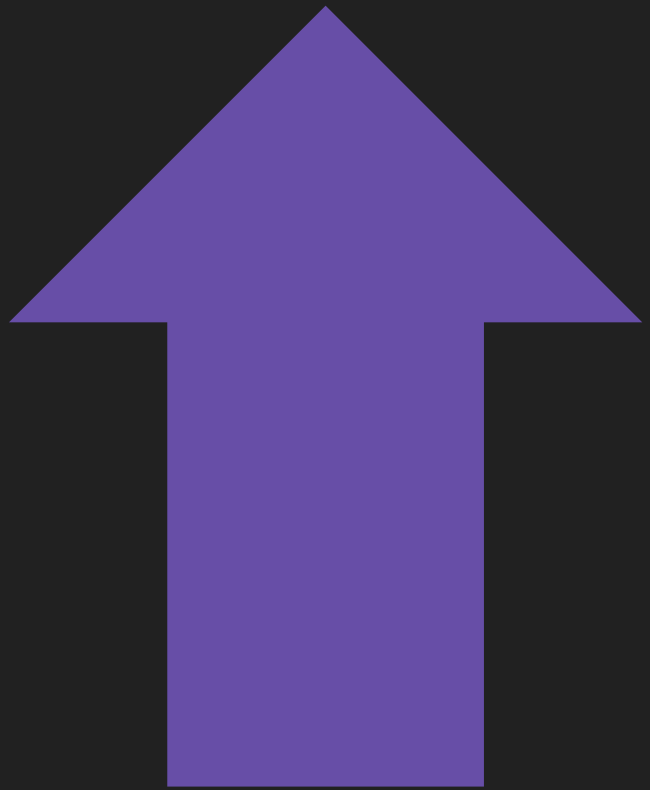


Choreography



Distributed systems

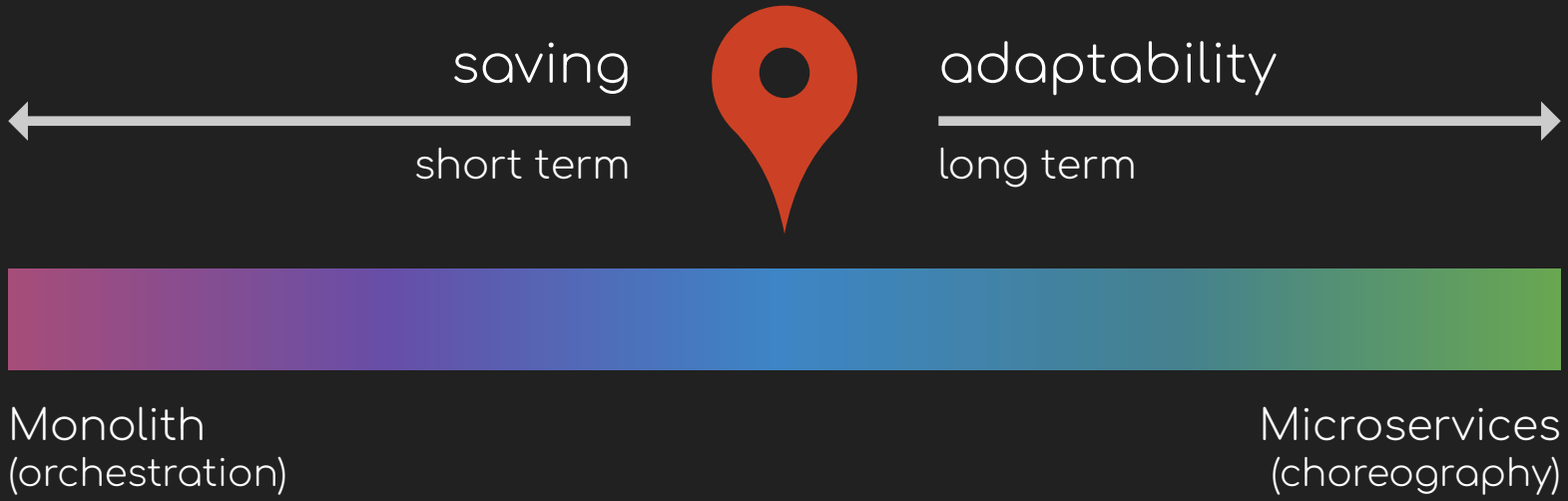




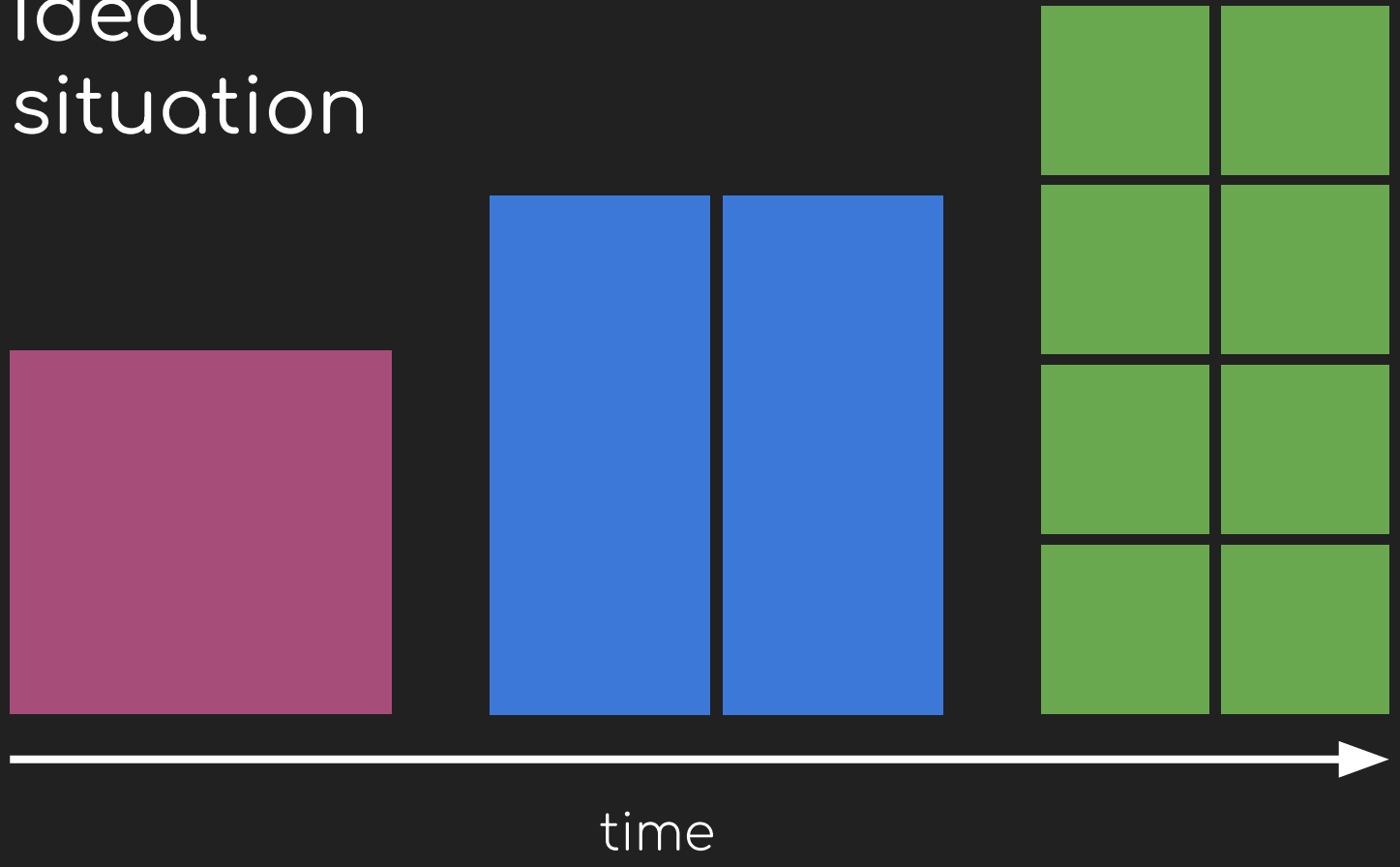
Overhead &

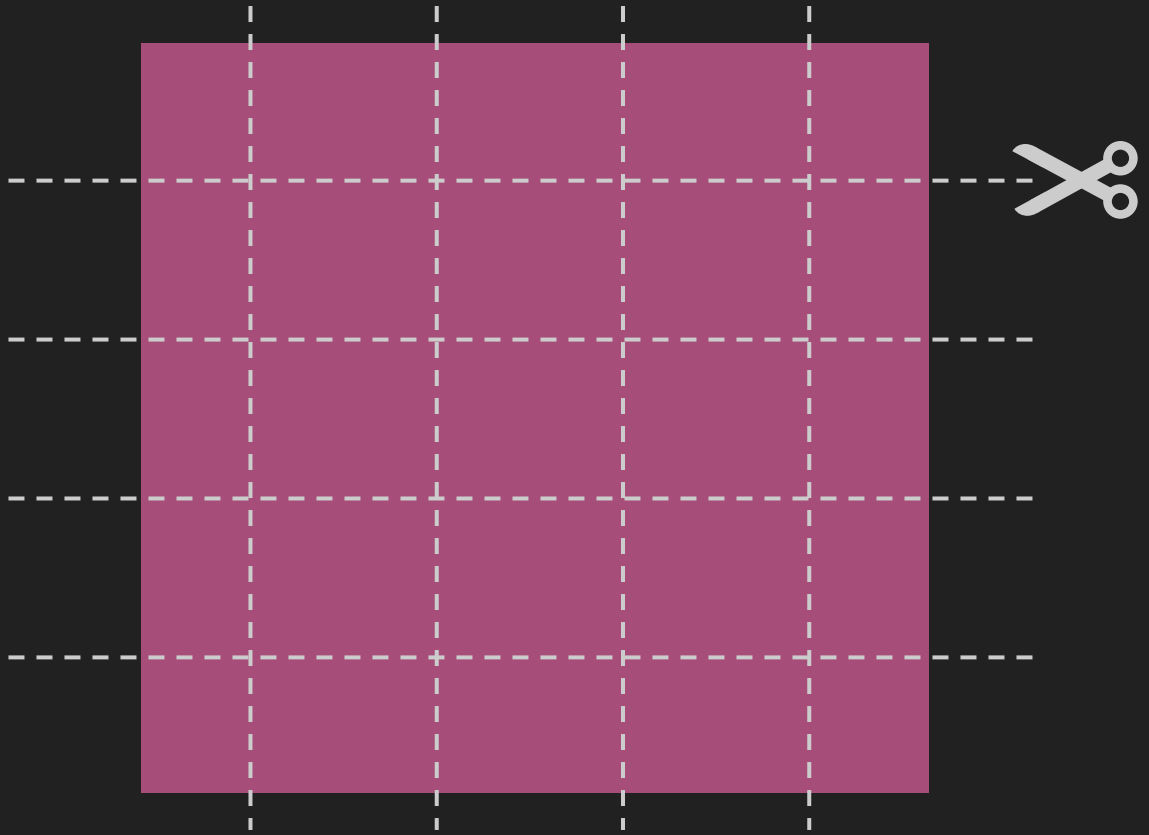
$$$

What to do?

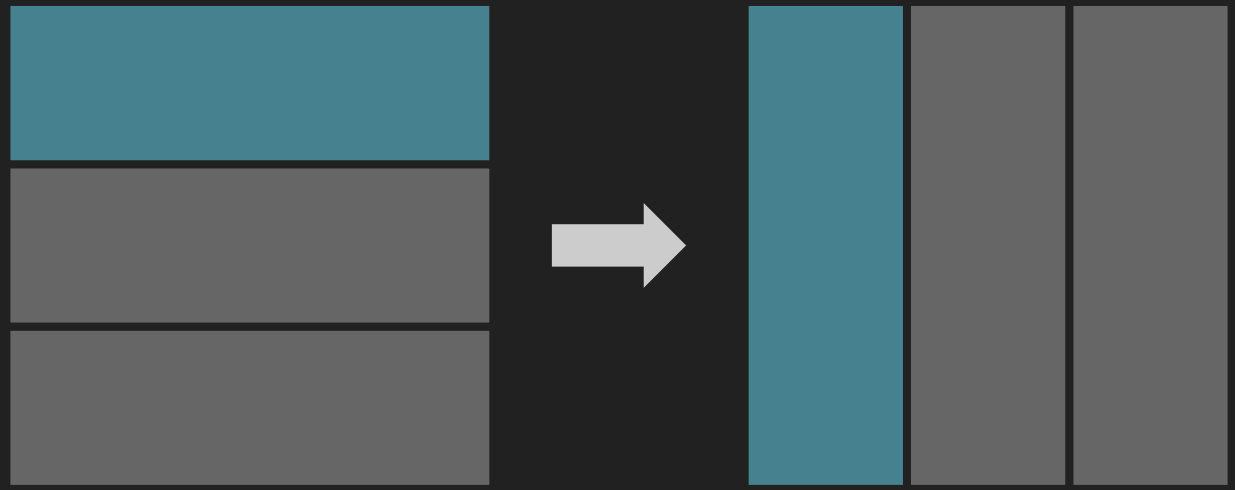

saving
short term
adaptability
long term
Monolith
(orchestration)
Microservices
(choreography)

Ideal situation





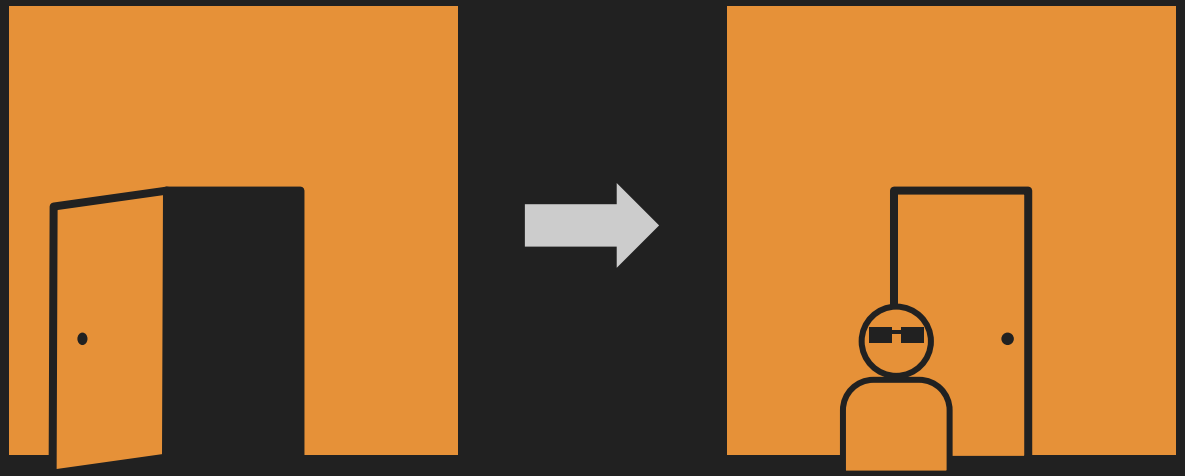
Decomposition



Technical orientation

Business orientation

Modularity



Weak

Strong

Module structure

Sales

Products

Customers

Rental

Maintenance

Purchasing

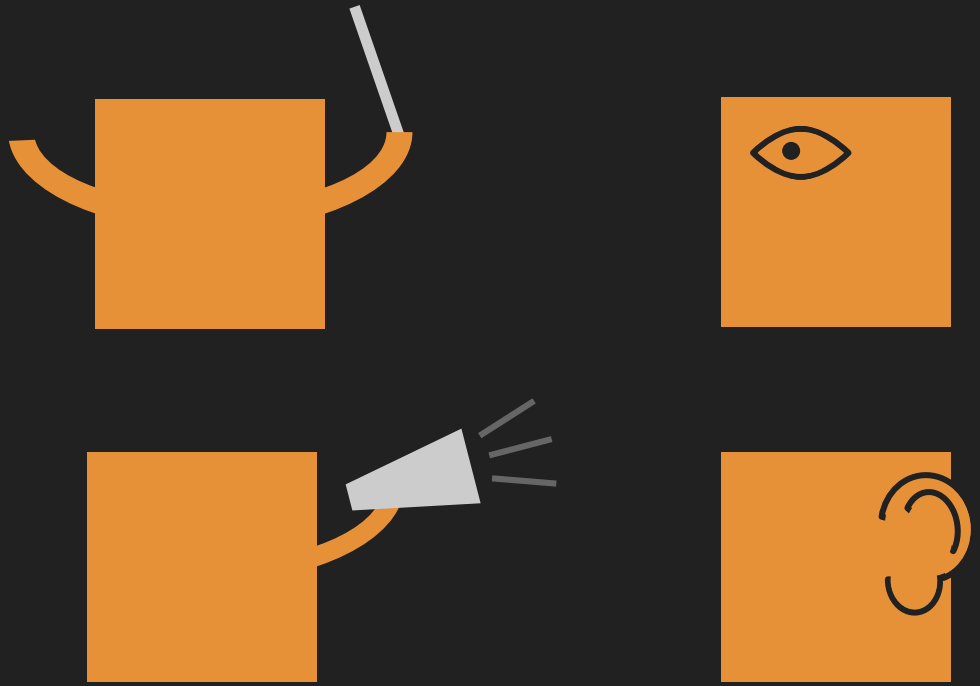
Contracts

Employees

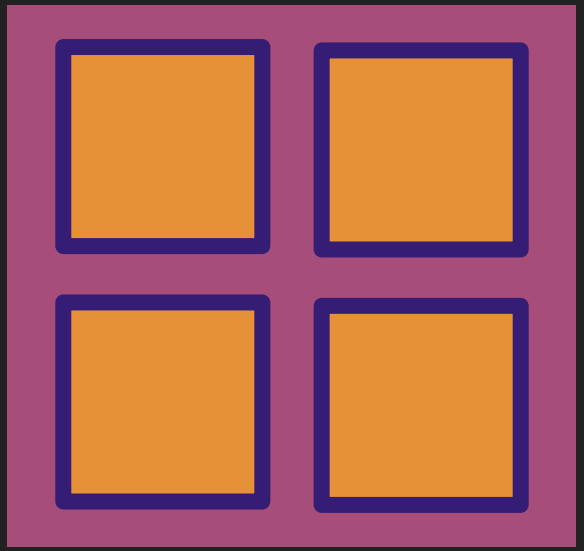
Planning

...

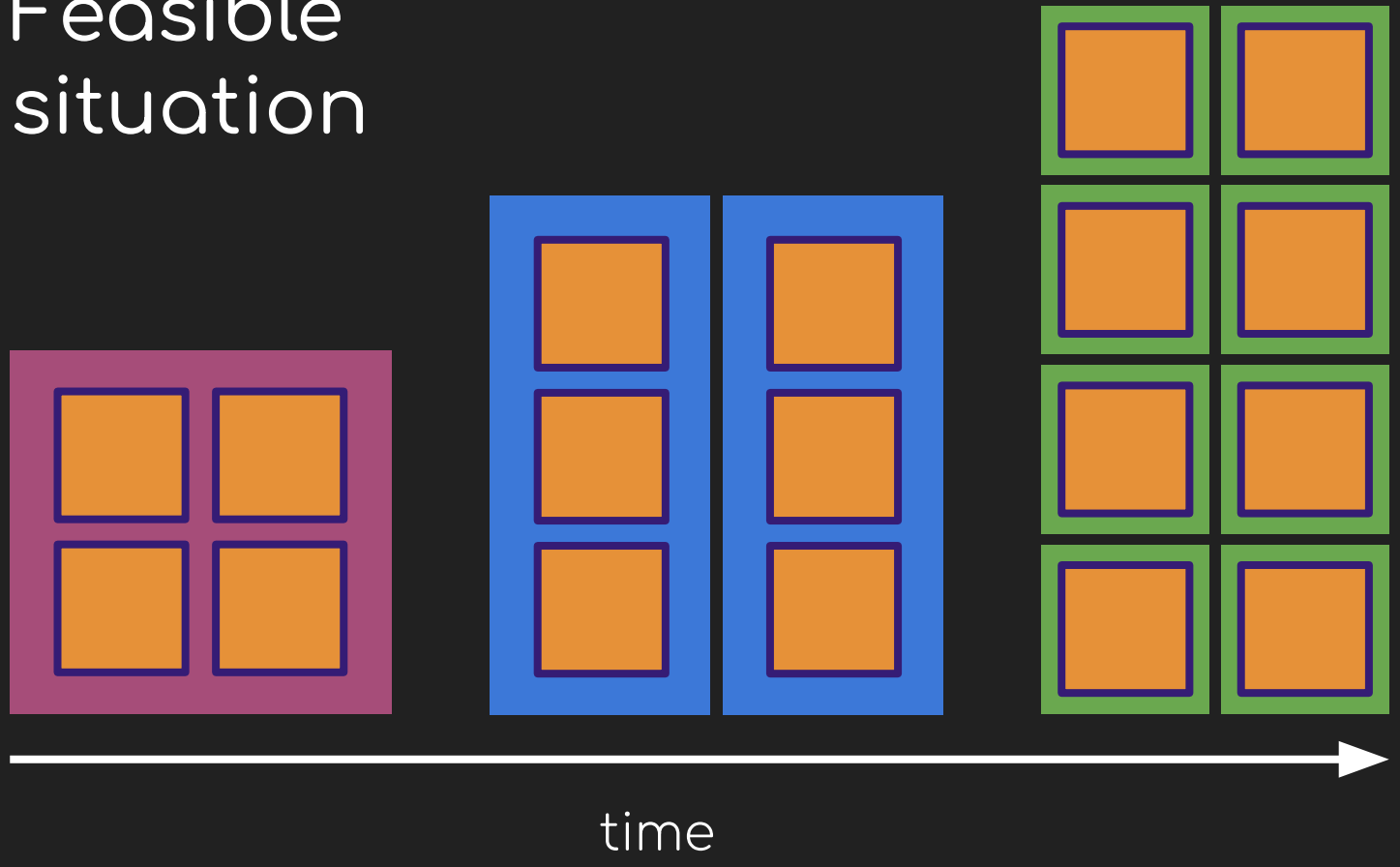
Module interaction



Modular Monolith

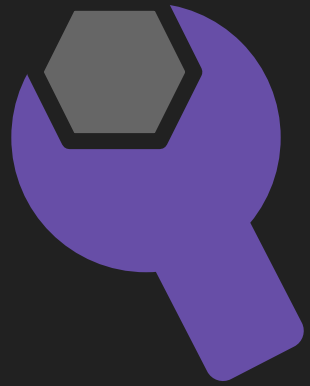


Feasible situation



How to break up

Unlink
interaction



Set up
operations

When to break up

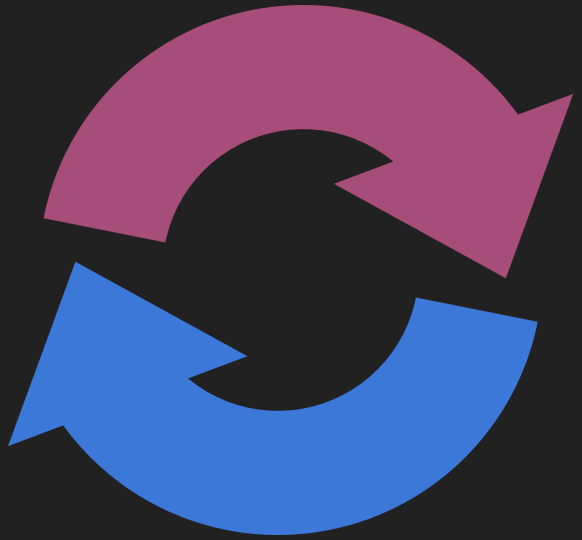
Deploying...

Recovering...

Announcement

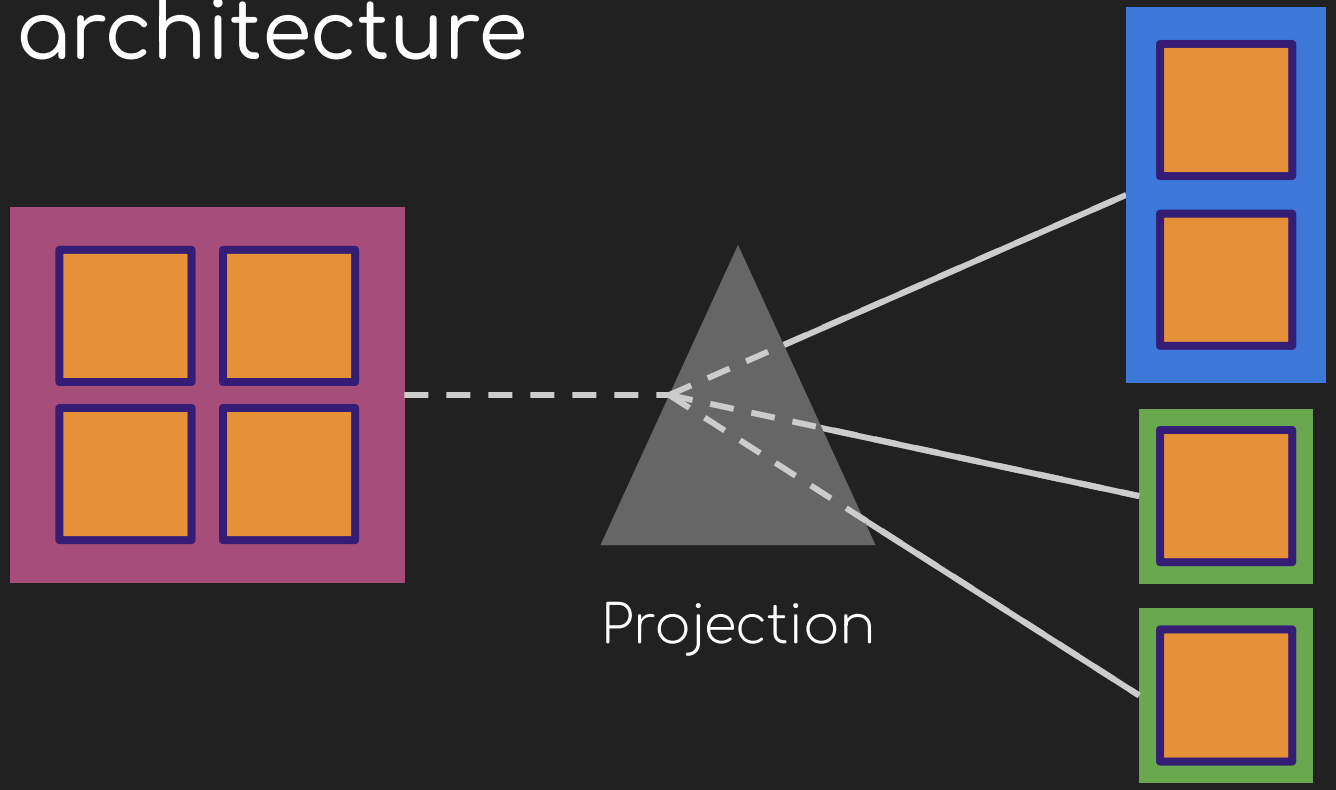
Lease

?

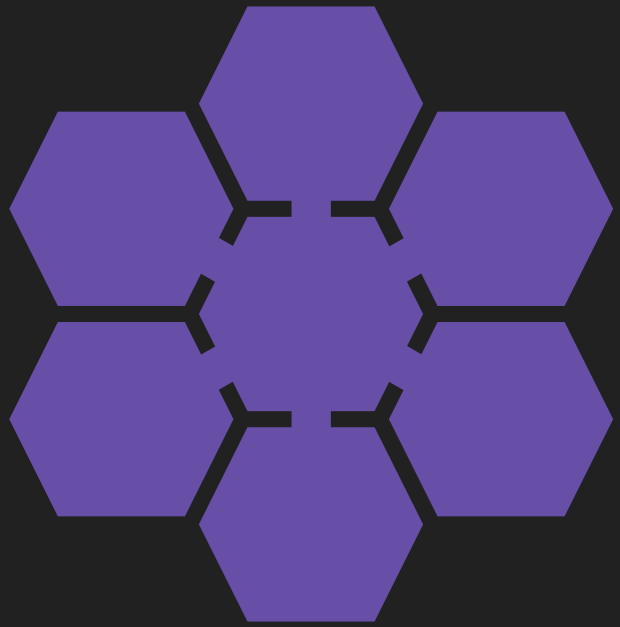


Continuous architecting

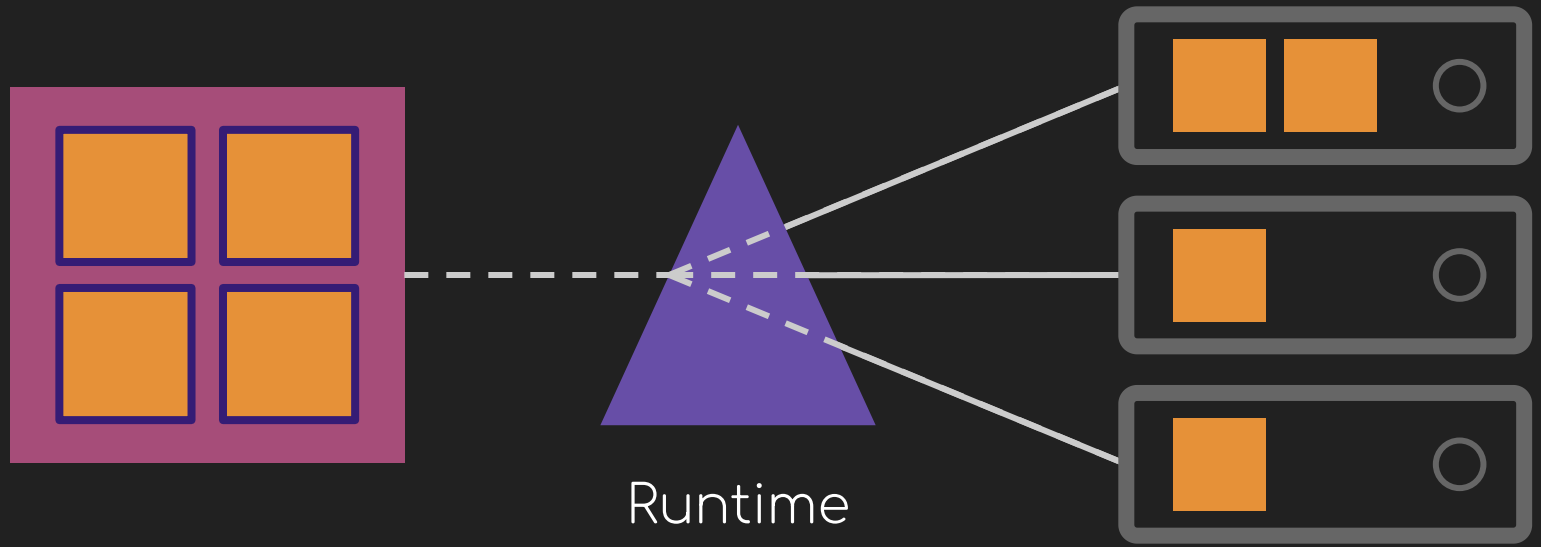
Just-in-time architecture



Service mesh

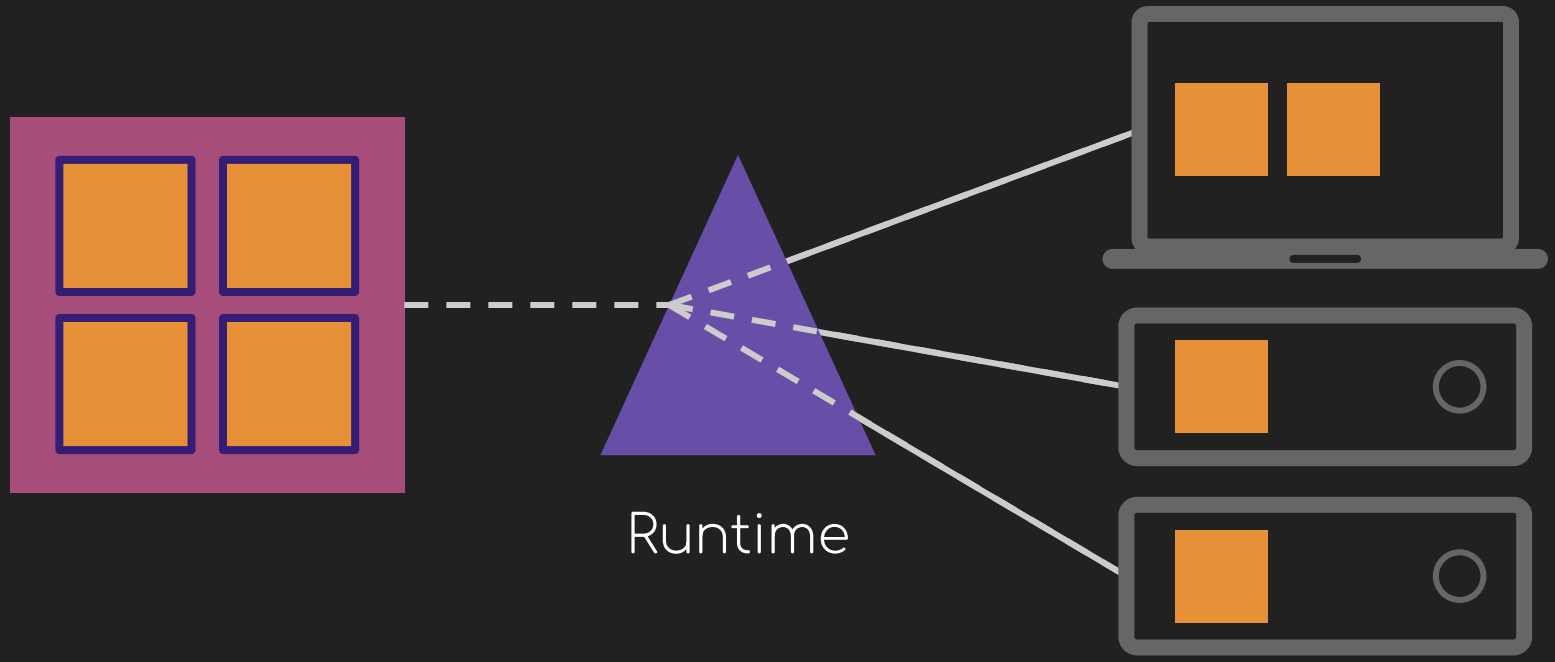


Distributed runtime



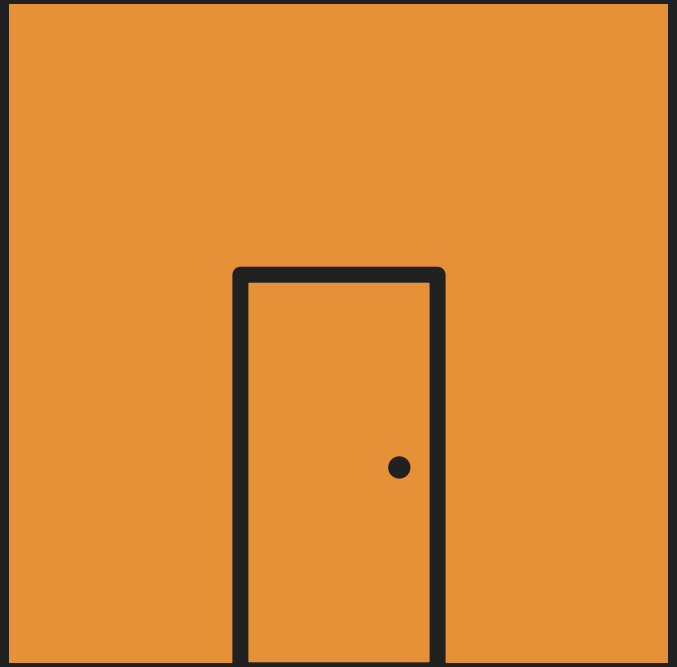
Full-stack?

End-to-end automation



Key takeaways

Monolith



Strong modules

Business decomposition

Just-in-time architecture

Split off for the right reasons

Thanks!

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