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GOLD PARTNER

GENERÁLNÍ PARTNER

COMMERZ SYSTEMS
Commerzbank Group

Java Microservices

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Java Days

wait, why another architecture ?
why now ?

digital

big data

Fast data

containers

mobile

scalability

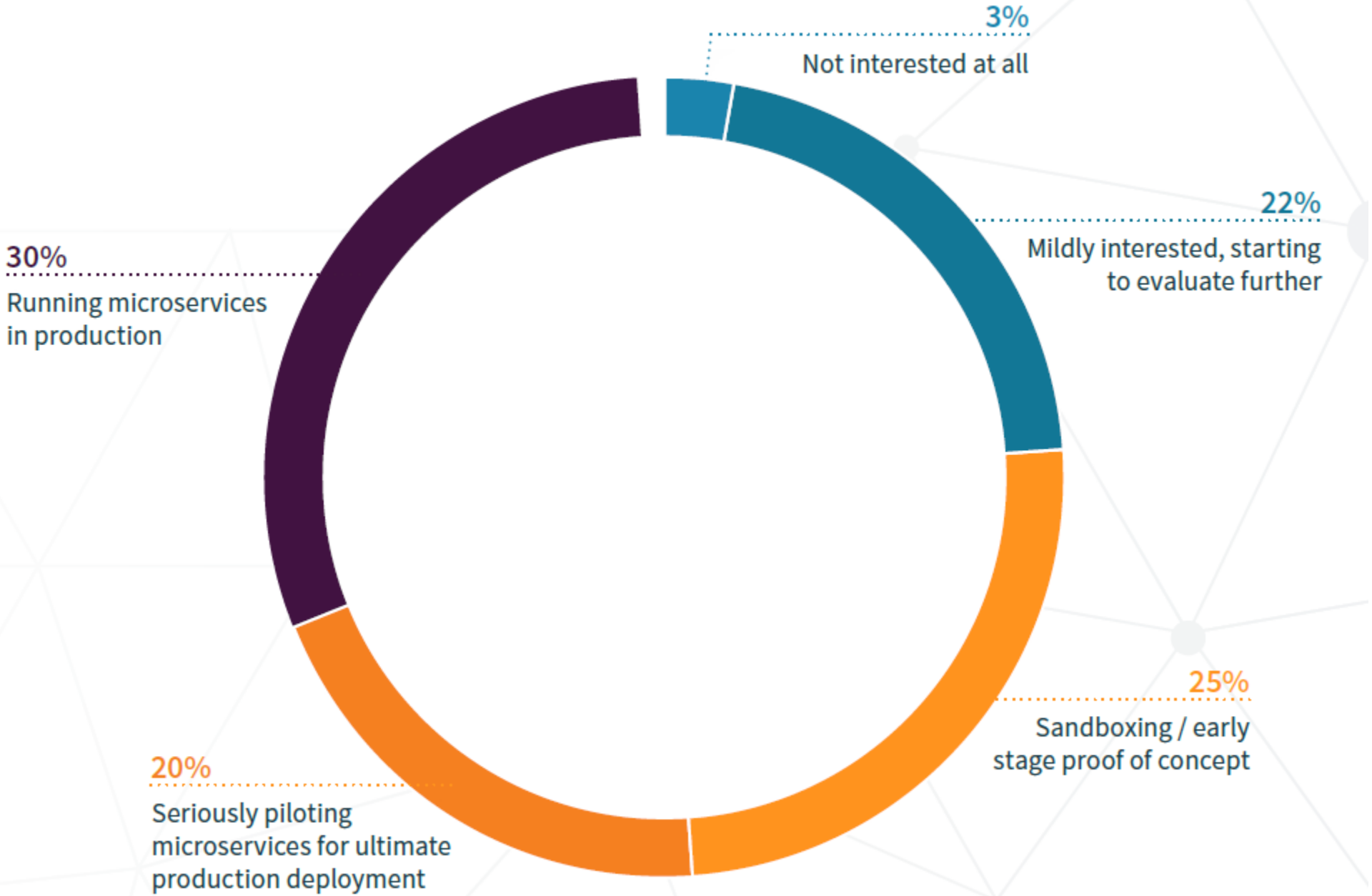
tools

evolution

iot

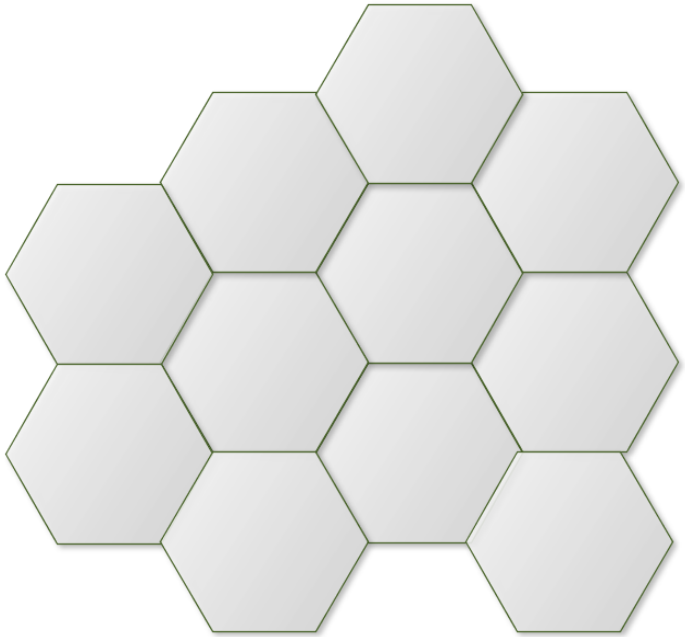
lean

cloud



https://info.lightbend.com/COLL-20XX-Enterprise-Development-Trends-2016-Report_RES-LP.html?lst=PR

services that work togheter...



micro service

atomic service

autonomous service

how big they are ?

domain driven
scope of responsibility

what characteristics do they have ?

heterogenity
resiliency
scalability
highly distributed
eventualy consistent
Fast deployable

what they need ?

ddd
devops
ci/cd
monitoring

how they communicate ?

http/rest/json/gpb

api/events/messaging

synchronous/asynchronous

secure/oauth2/openid connect

where they live ?

cloud
virtual machines
containers

they are usually hidden !

cloud

location transparency

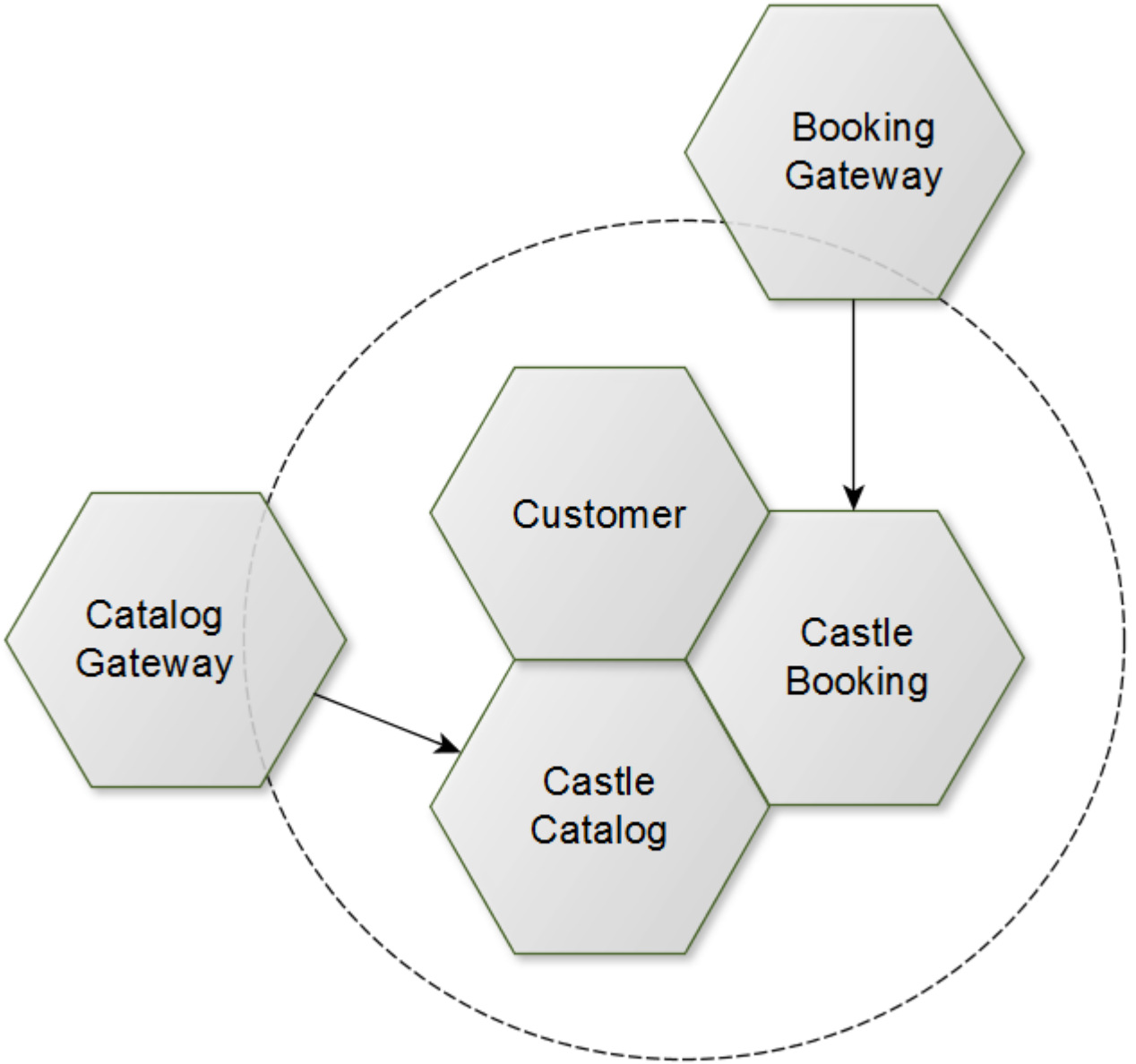
mobility

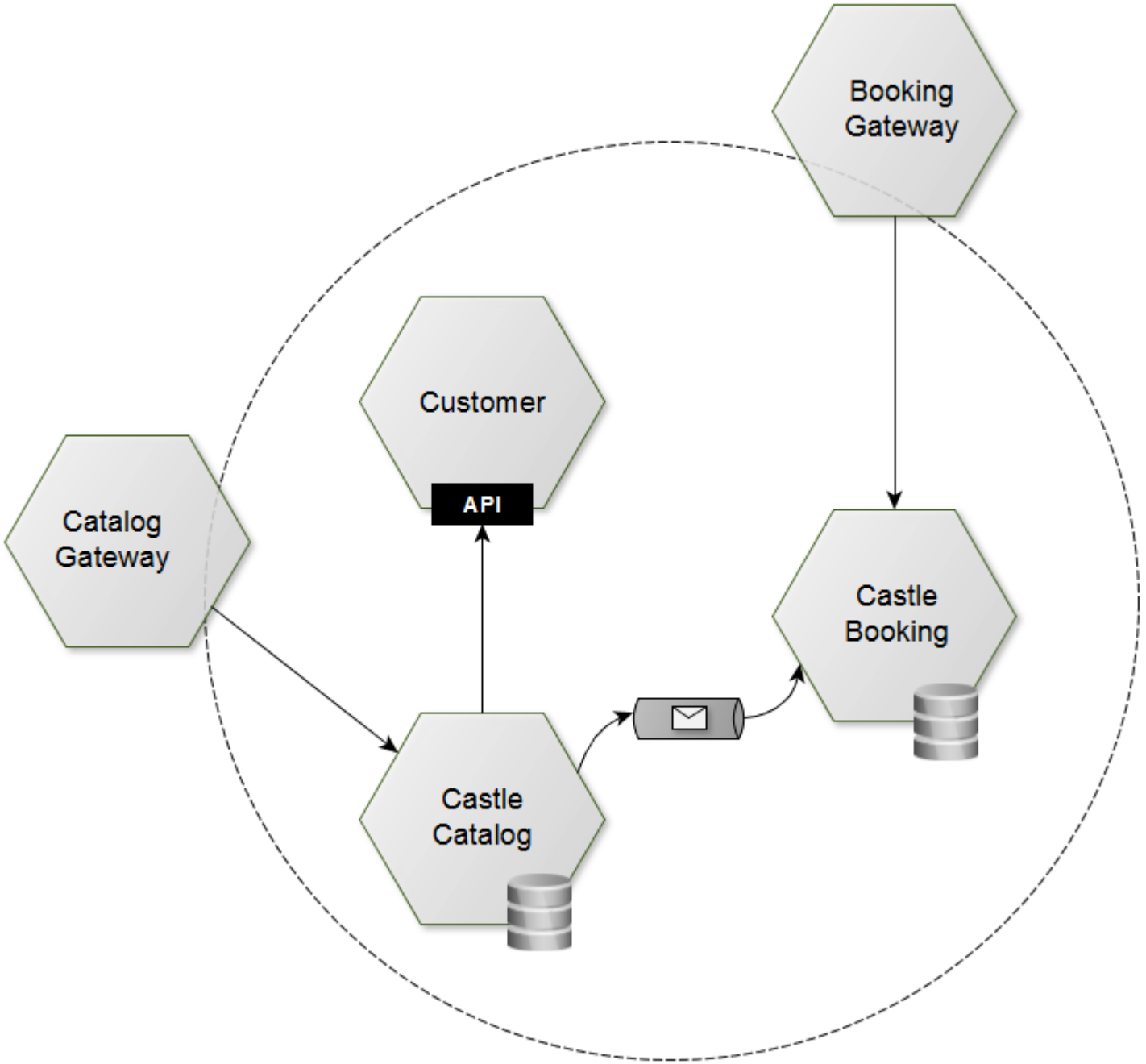
service registry

DEMO

spring boot

spring cloud


Booking
Gateway
Customer
Catalog
Gateway
Castle
Booking
Castle
Catalog


Booking
Gateway
Customer
API
Catalog
Gateway
Castle
Booking
Castle
Catalog

watch out, they can bite you !

distributed

complex

be prepared for failure

think different

be agile

always think about what you read or hear

DRY

ACID

BASE

YAGNI

CQRS

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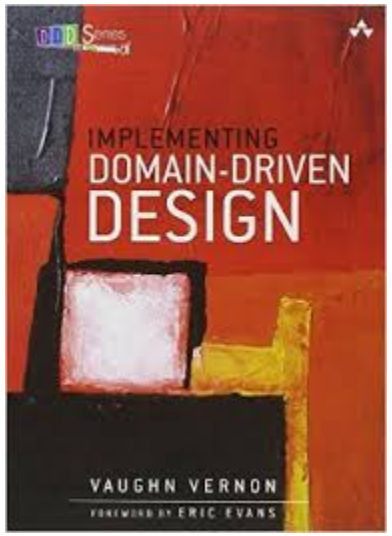
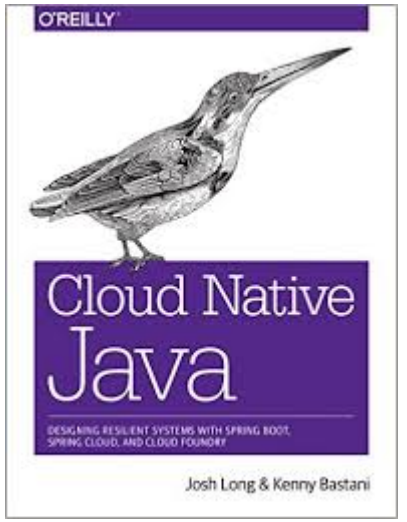
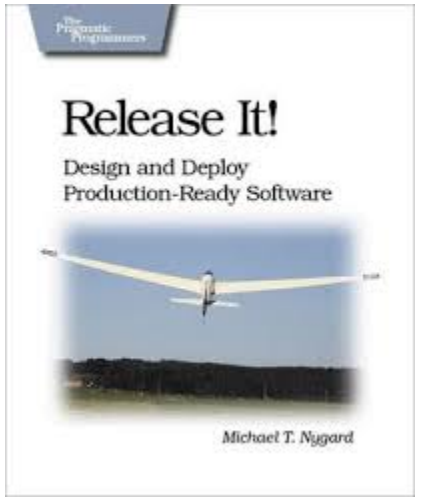
Java Days

O'REILLY
Building Microservices
Sam Newman


IMPLEMENTING
DOMAIN-DRIVEN
DESIGN
VAUGHN VERNON


O'REILLY
Cloud Native Java
Josh Long & Kenny Bastani


Release It!
Design and Deploy
Production-Ready Software
Michael T. Nygard

Děkuji za pozornost.

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