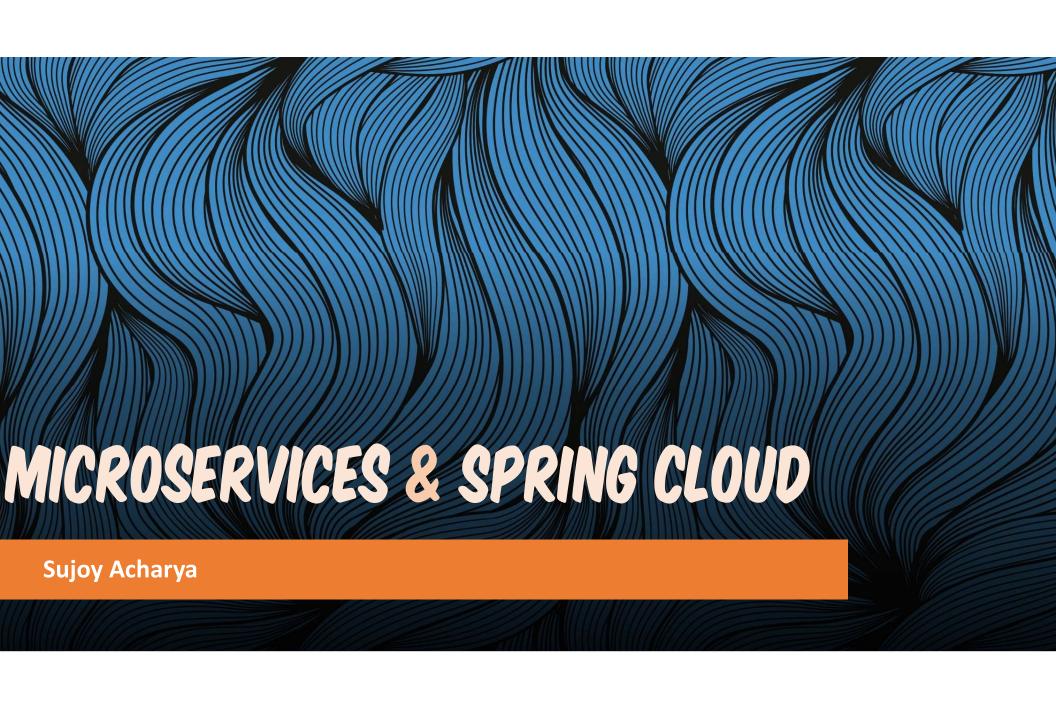
MICROSERVICES?



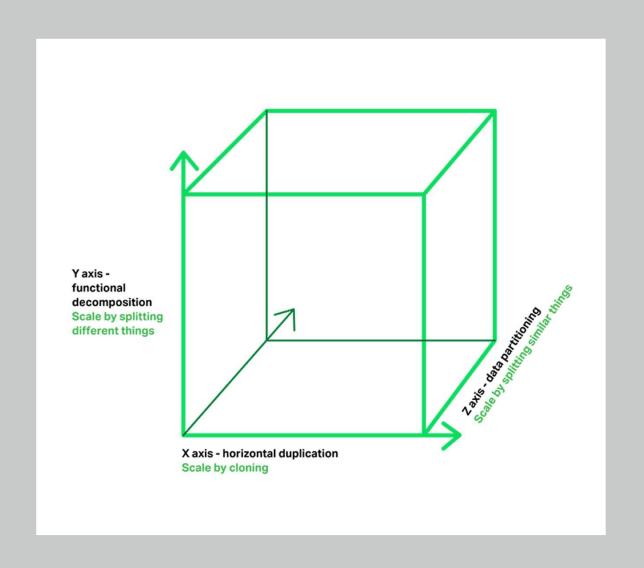


AGENDA

- · MICROSERVICES: RECAP
- WHY SPRING CLOUD?
 - GATEWAY
 - · CONFIG
 - REGISTRY
 - · LOAD BALANCER
- EXAMPLES

MICROSERVICES: RECAP

- Structuring an app as a collection of services
 - Modularity
 - Maintainable
 - Testable
 - Loosely coupled
 - Independently deployable



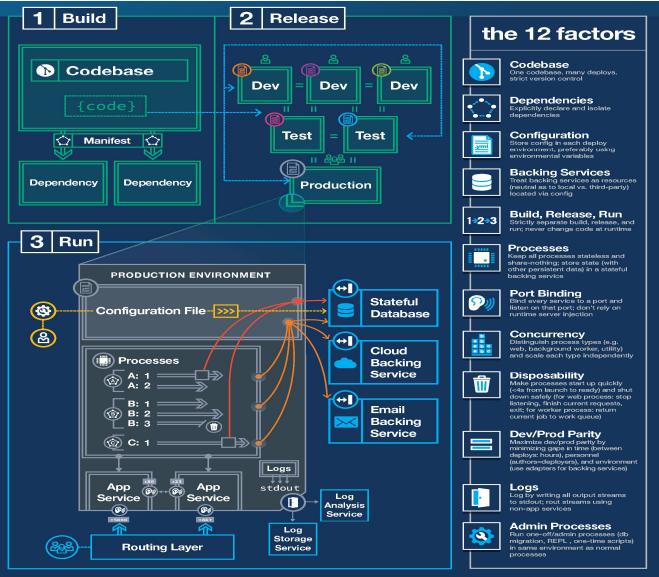
MICROSERVICES: BENEFITS



- CICD
- Maintainability
- Scalable
- Deployable
- Fault Boundary
- New Technology

MICROSERVICES: DRAWBACKS

- Decomposition
- Complexity
 - Remote service availability and latency
 - Distributed transaction
 - Distributed query
 - Operational complexity K8s, docker swarm, PCF
- Multi-service feature deployment
 - Coordination
 - Prioritization

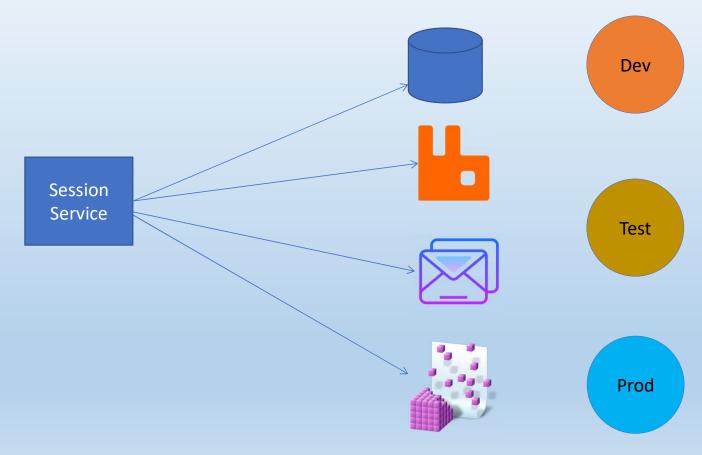


12-FACTOR APPS?

CREATED BY DZONE.COM



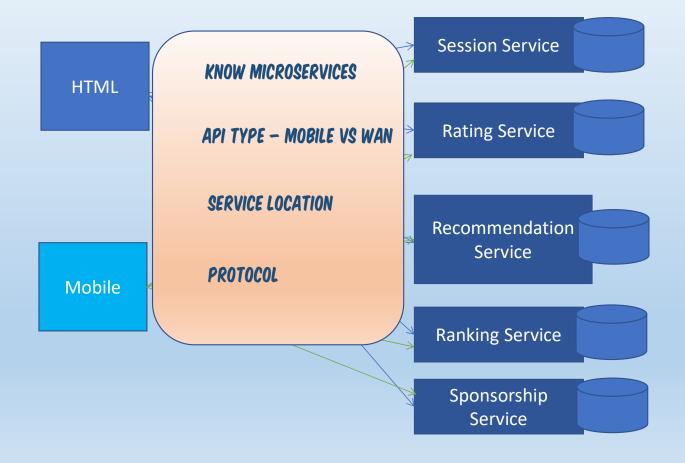
DEPLOYING MICROSERVICES



DISCOVERING SERVICES

Rating Service 10.10.1.1 Rating Service 10.10.1.9 KNOW THE IP ADDRESS Session Service **DYNAMIC AUTO-SCALING** Rating Service 10.10.1.15 Rating Service 10.10.1.100

INVOKING MICROSERVICES



SPRING CL

Common concerns

Tools for building



FEATURES

- Distributed/versioned configuration
- Service registration and discovery
- Routing
- Load balancing
- Circuit Breakers
- Distributed messaging
- Distributed tracing
- Data Streaming

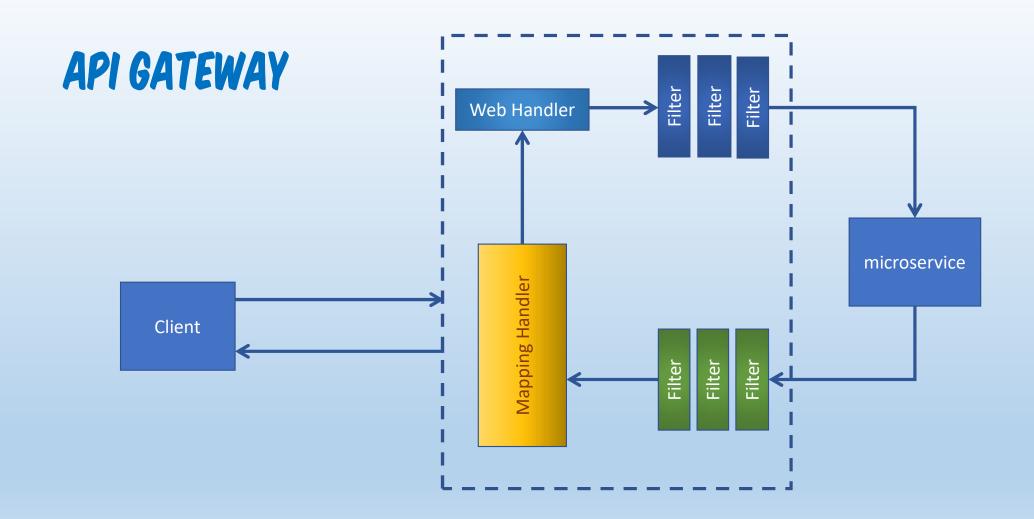
CLOUD CONFIG

EUREKA AND CONSUL

API GATEWAY

RIBBON AND EUREKA

HYSTRIX, RESILIENCE4J, SPRING RETRY, SENTINEL



THANK YOU

References

• 1. 12factor image - https://dz2cdn3.dzone.com/storage/rc-covers/3769958-12-factor-app.png