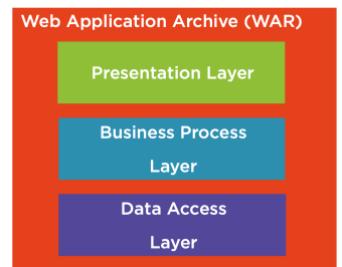


SpringBoot - Microservices – from Monolith to Microservices

Beschreibung

Wir werden nun hands on anlegen und eine Application von einer monolithic Arch. Zu einer MSA umschreiben.



Zeitbedarf:

2 Lektionen

Hilfsmittel:

SpringBoot Monolith to MS

Methode/Sozialform:



Lernziele:

- ✓ **Monolithic Arch. Verstehen**
- ✓ **Microservice Arch. umschreiben**
- ✓ **Decompose**

Legende:



Einzelarbeit,



Partnerarbeit,



Dokumentation,



Code,



Präsentation

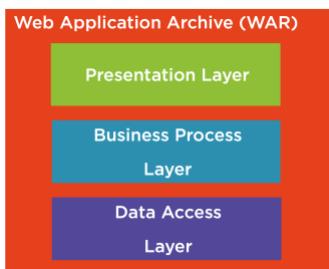
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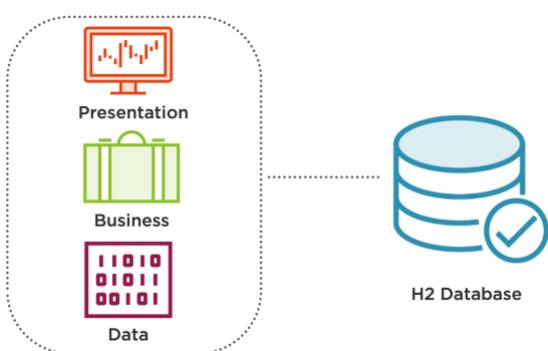
1 Architectures

1.1 N-Tier Monolithic Arch.

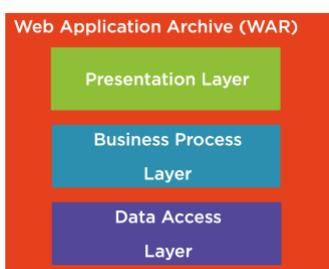


- Tight coupling
- Long testing, building and deployment
- Code reuse difficult
- Large scale releases

Monolithic Arch. Diagram

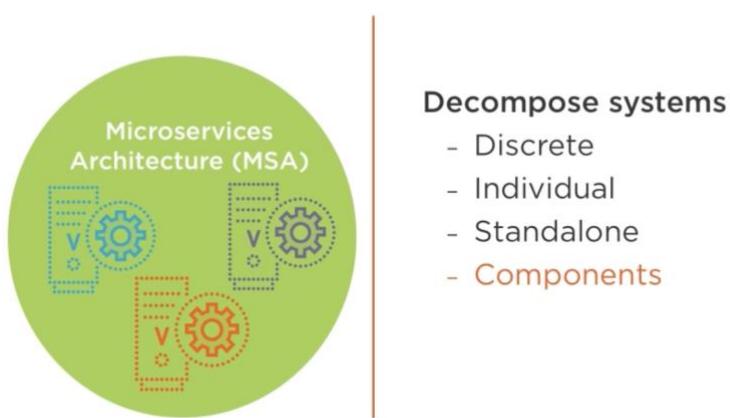


1.2 Service oriented Architecture



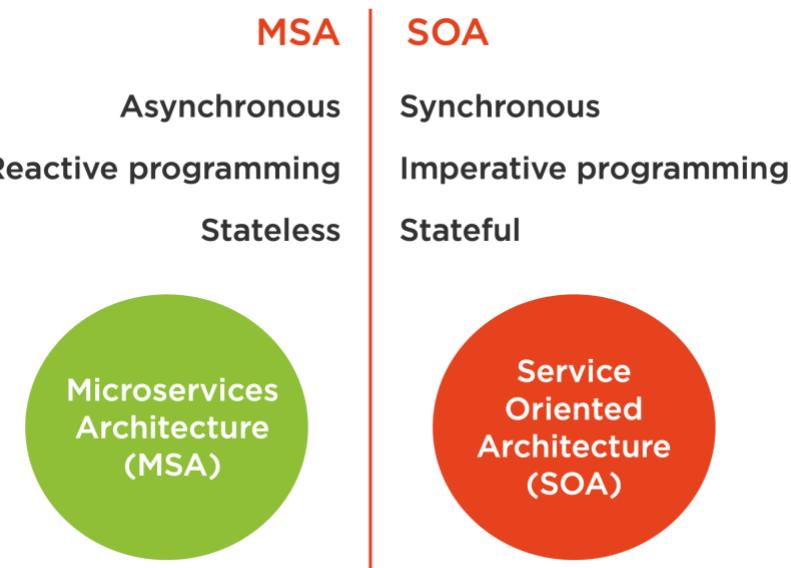
Layered Arch.

1.3 Microservice Architecture

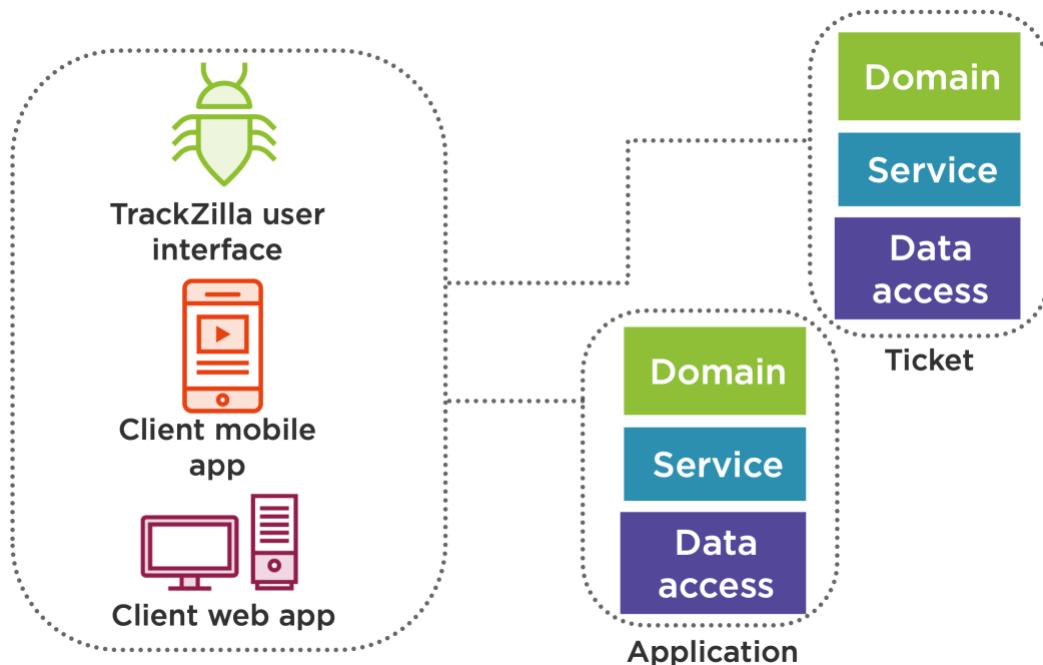


1.4 MSA vs. SOA

MSA	SOA
Asynchronous	Synchronous
Reactive programming	Imperative programming
Stateless	Stateful



1.5 TrackZilla Microservices Architecture



1.6 Benefits of MSA

Communicate via RESTful endpoint

Easy to write, test, deploy, and share

Changes isolated to single service

Easy separation of responsibilities