

# Desenvolvendo um Microserviço em Spring Boot e realizando a implantação no AKS utilizando o Azure DevOps

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Arquiteto de Solução | DXC Technology

# Mais sobre mim

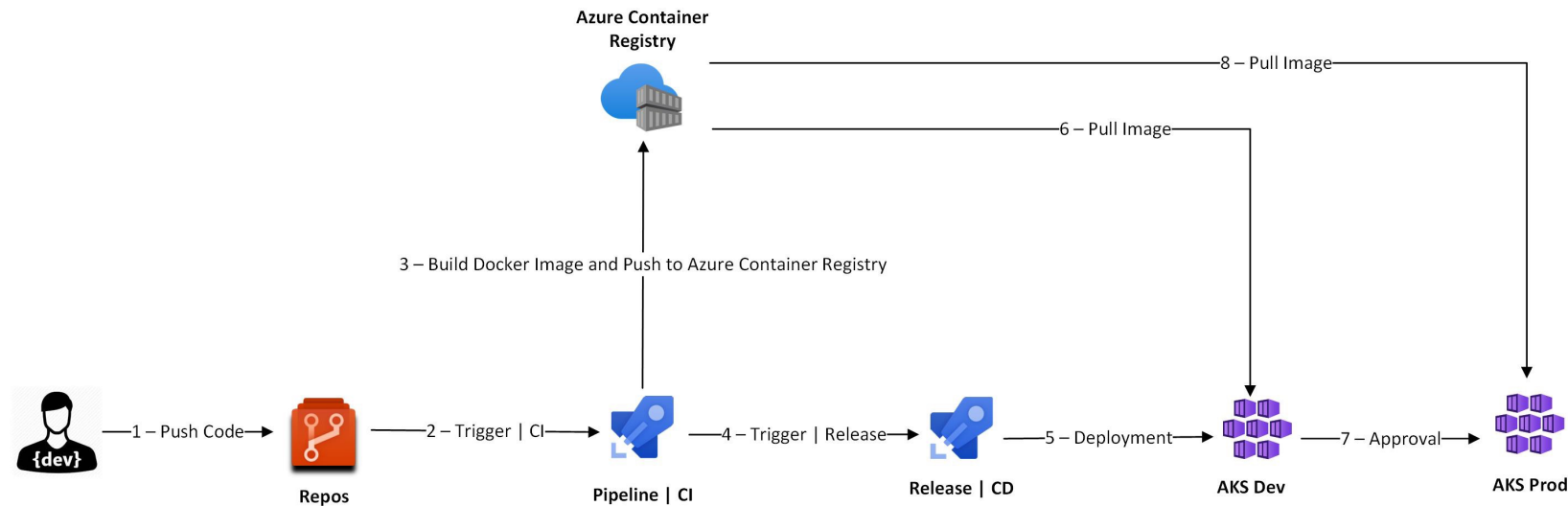
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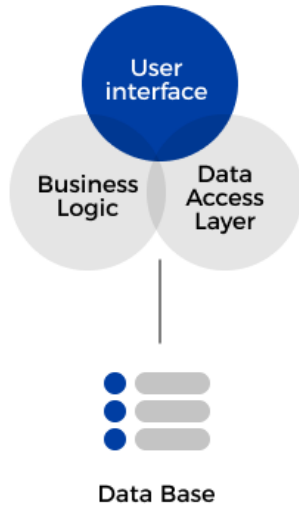
Livro Jornada Azure DevOps: <https://www.brasport.com.br/gerenciamento-de-projetos/metodos-ageis/jornada-azure-devops/>

# Desafio da live

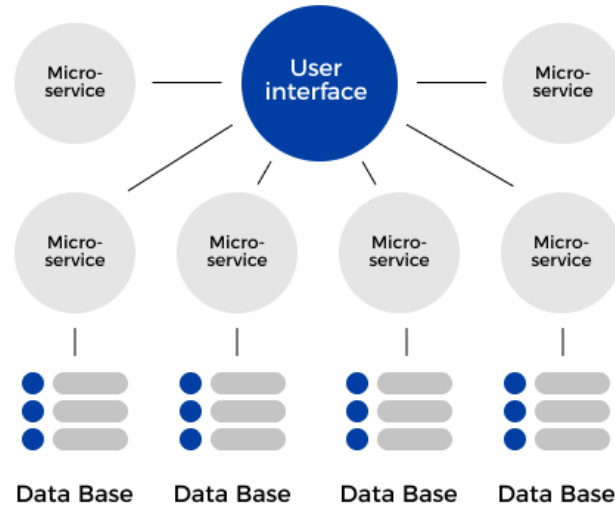


# Arquitetura Monolítica vs Microsserviço

## MONOLITHIC ARCHITECTURE

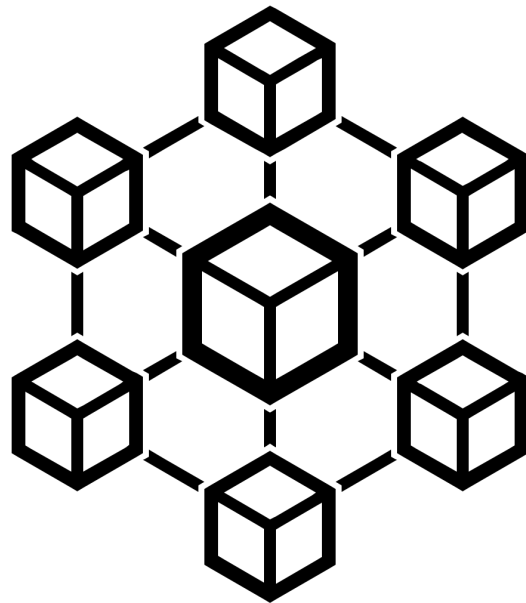


## MICROSERVICE ARCHITECTURE



# Microserviço

- O Microserviço é um serviço implantável independentemente, modelado em torno de um domínio comercial.
- É um método de dividir aplicativos de software grandes em módulos fracamente acoplados, nos quais cada serviço executa um processo exclusivo e se comunica por meio de APIs.
- Ele pode ser desenvolvido usando APIs de mensagens ou orientadas a eventos.



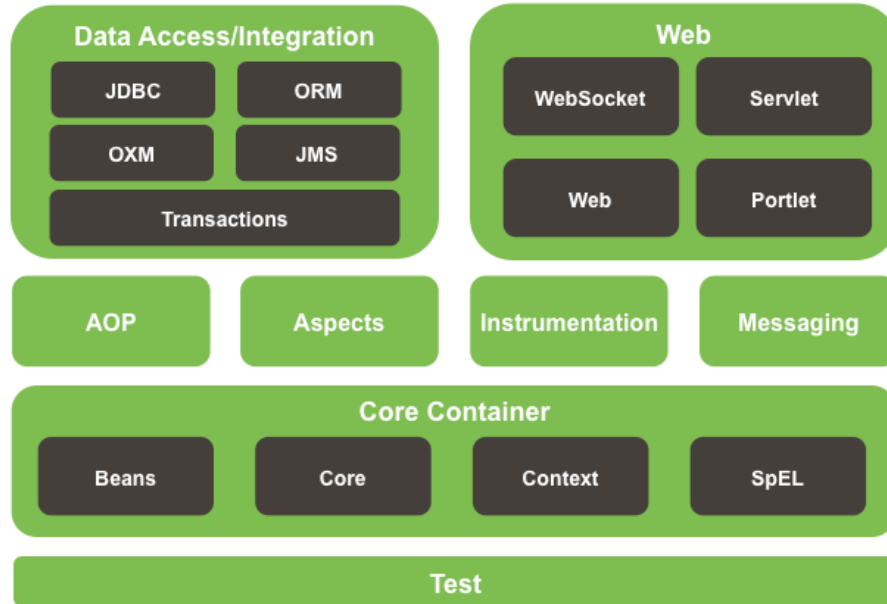
# Princípios Microserviços

1. Deployment Independence - updates to an individual microservice have no negative impact to any other component of the system. Optimized for Replacement
2. Organized around business capabilities
3. Products not Projects
4. API Focused
5. Smart endpoints and dumb pipes
6. Decentralized Governance
7. Decentralized Data Management
8. Infrastructure Automation (infrastructure as code)
9. Design for failure
10. Evolutionary Design

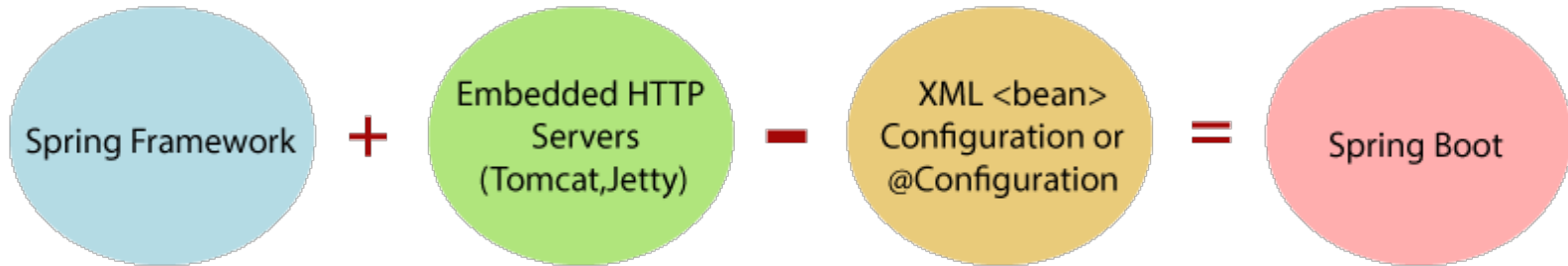
# Spring Framework



## Spring Framework Runtime

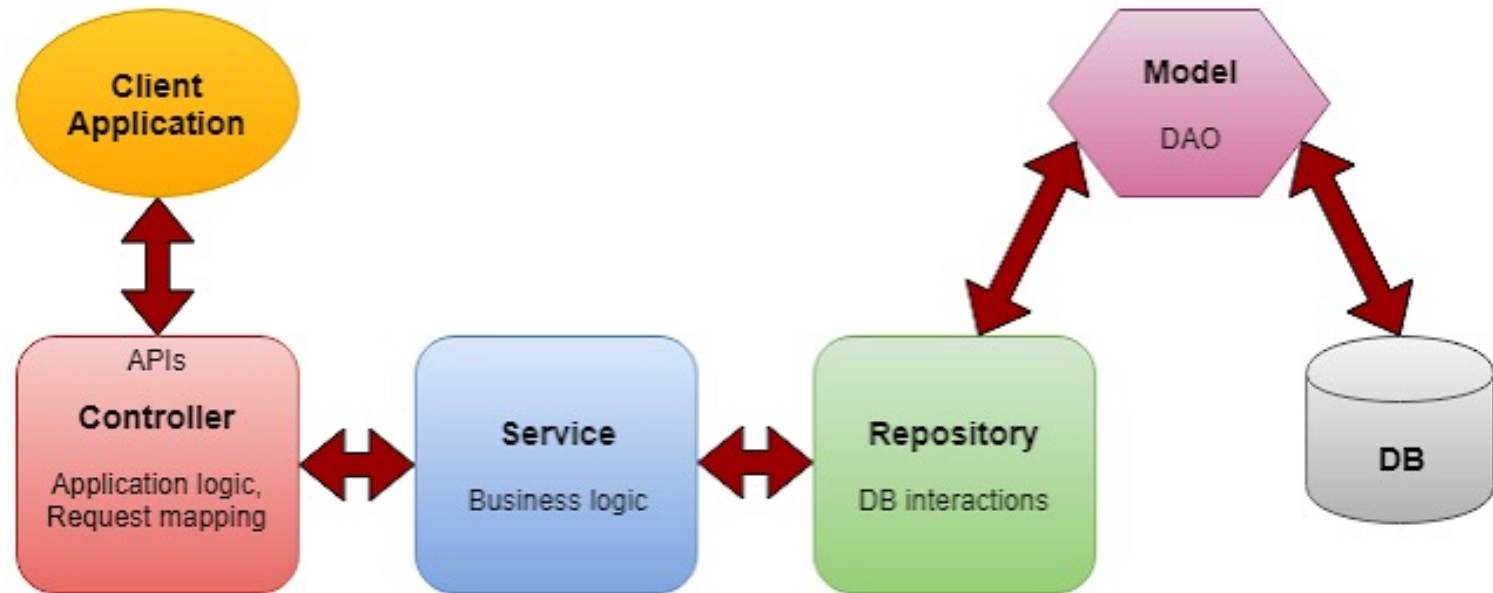


# Spring Boot

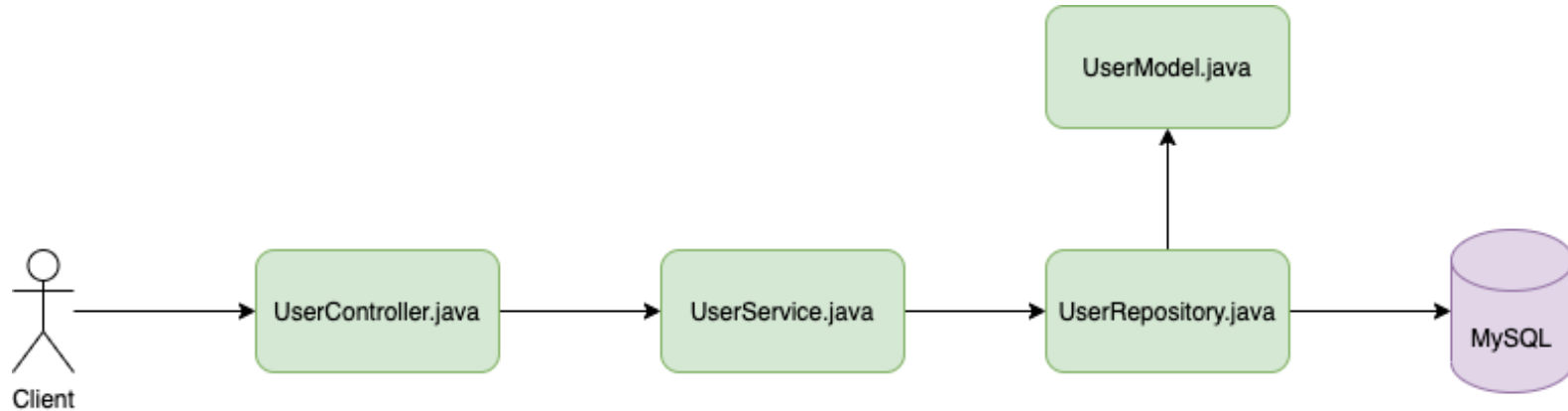




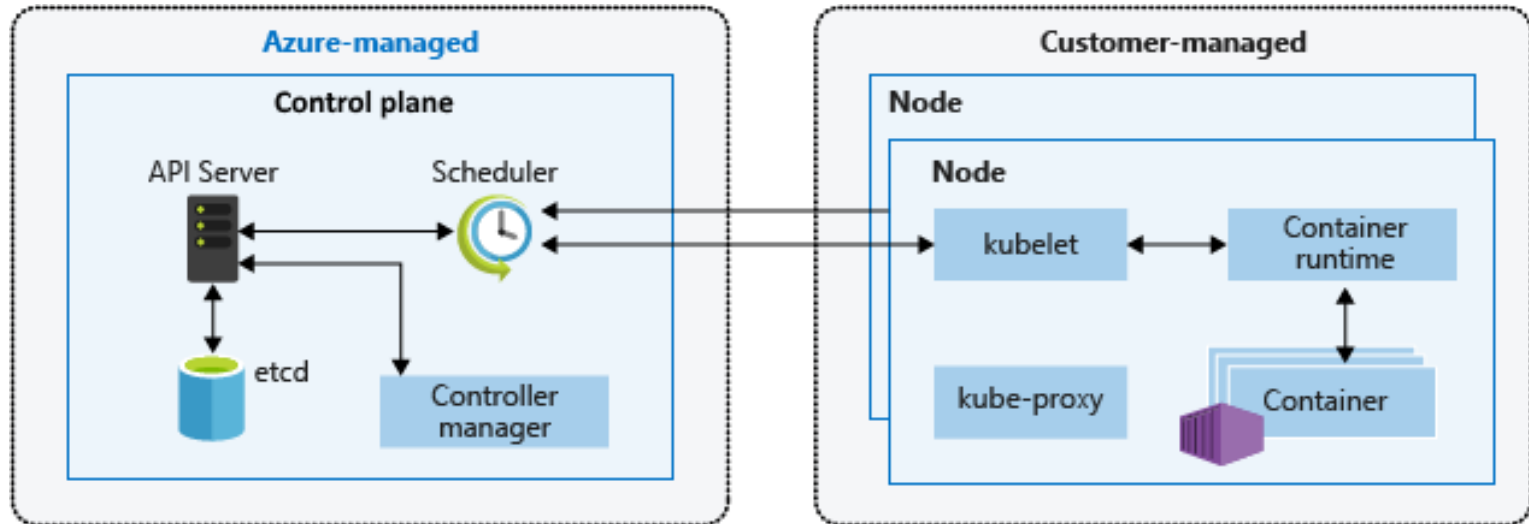
# Fluxo MS Spring Boot



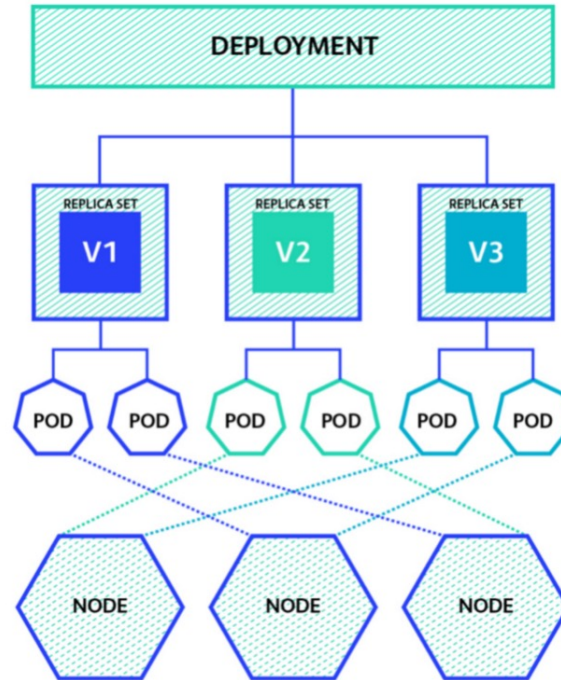
# Caso de Uso



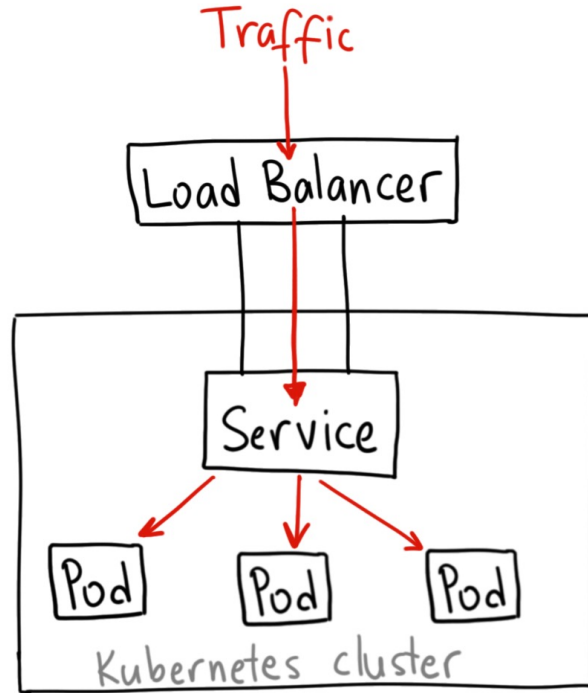
# Azure Kubernetes Service (AKS)



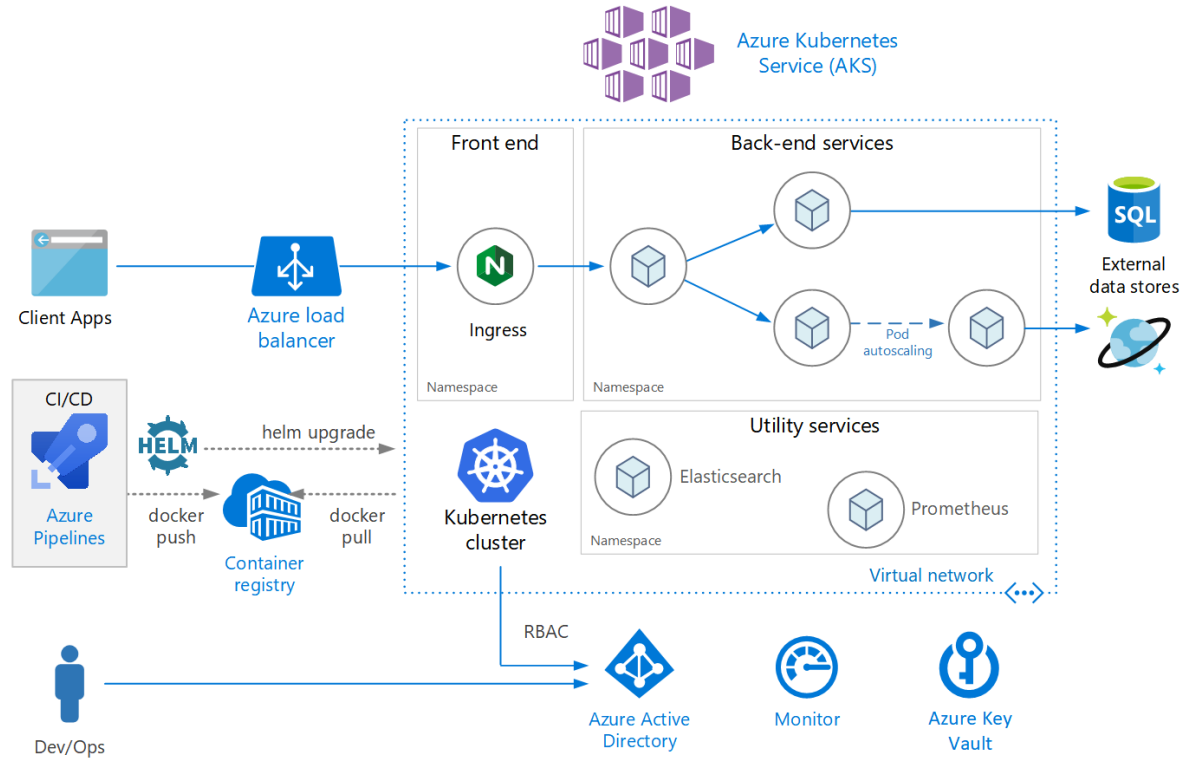
# K8S - Deployment



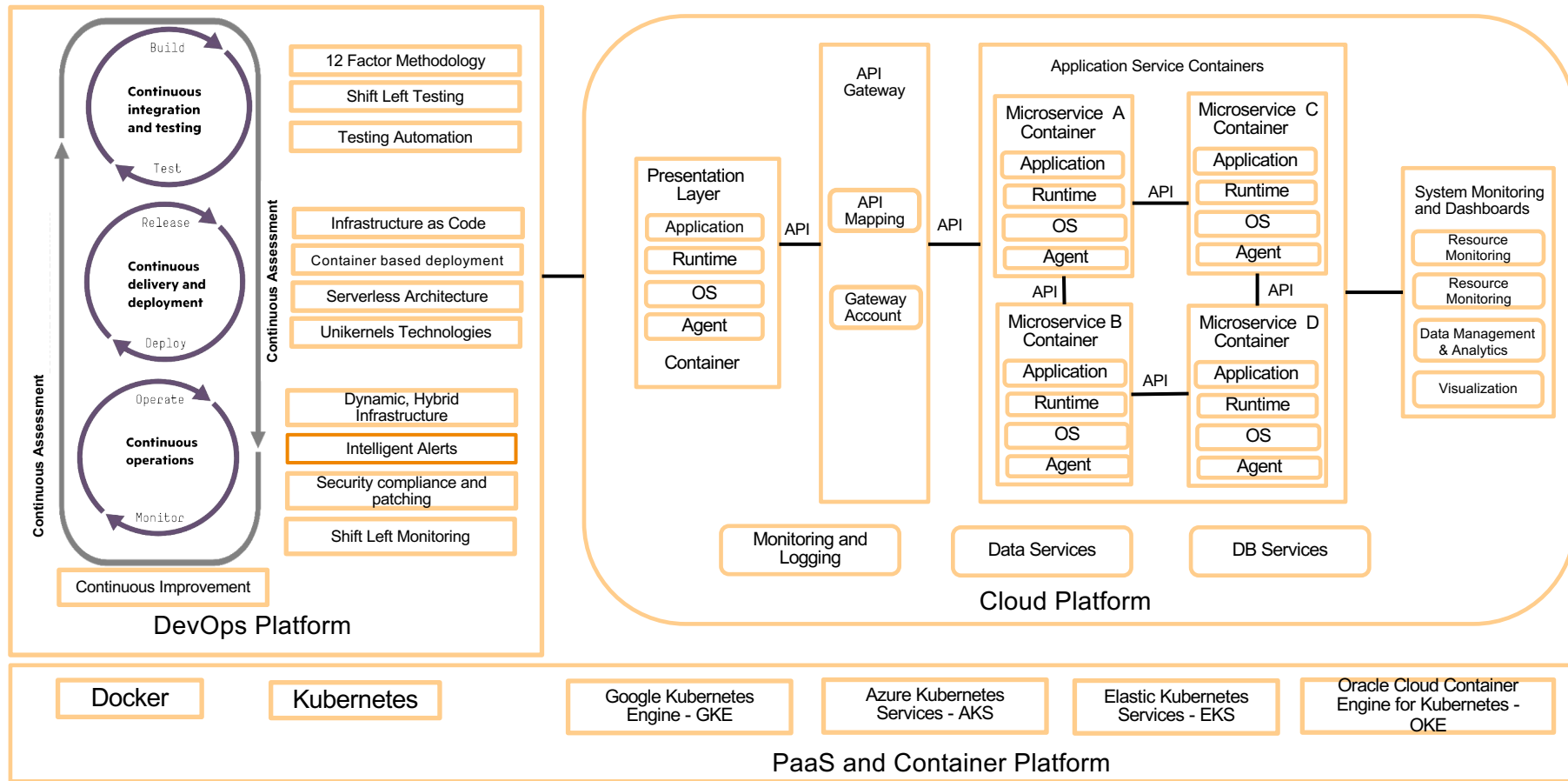
# K8S – Load Balancer



# Azure Kubernetes Service (AKS)



# Microservice | API and Container Based Management Strategy



# Desafio

- Adicionar mais atributos ao Microserviço
- Trocar CrudRepository por JpaRepository
- Adicionar a biblioteca para geração do Swagger



# Dúvidas?