



Who am I? And Why?

- Bacharel em Sistemas de Informação (UNIPAR)
- Especialista em Desenvolvimento para Dispositivos Móveis (FCV)
- Especialista em Gerência de Projetos em TI (Quaseeeeeee) (FCV)
- Mestrando em Computação Aplicada (UTFPR)
- Oracle Certified Java Programmer
- Oracle Certified Web Component Developer
- Certified Scrum Master
- Certified Scrum Developer
- Certified Scrum Professional
- Analista de Sistemas na MATERA Systems
- Professor do curso de Ciências da Computação na Faculdade Alvorada
- Desenvolvedor desde 2008
- Professor desde 2011
- Agilista desde 2012
- Entusiasta Java e Agile
- Apaixonado pela profissão
- Blogueiro, zueiro e parceiro



Summary

- Software Crisis
- Waterfall
- Iteration
- Phase of the Agile
- Monolith vs Microservices
- Benefits Microservices
- Monolith to Microservices
- Patterns in Microservices
- Real Examples
- Tips
- About MATERA Systems



Software Crisis



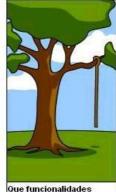
Como o cliente explicou...



Como o líder de projeto entendeu...



Como o analista projetou...



Que funcionalidades foram instaladas...



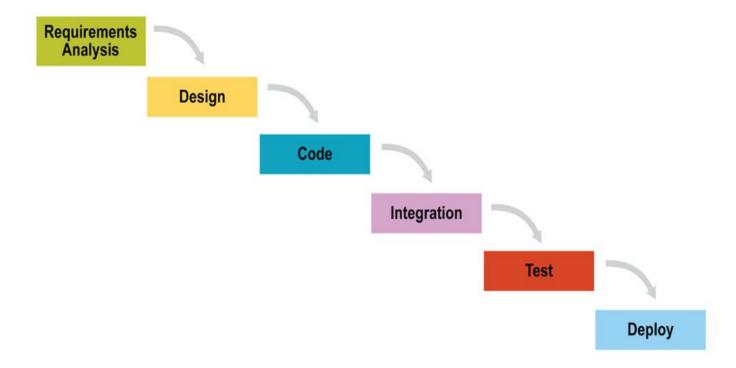
Como o cliente foi cobrado...



O que o cliente realmente queria...

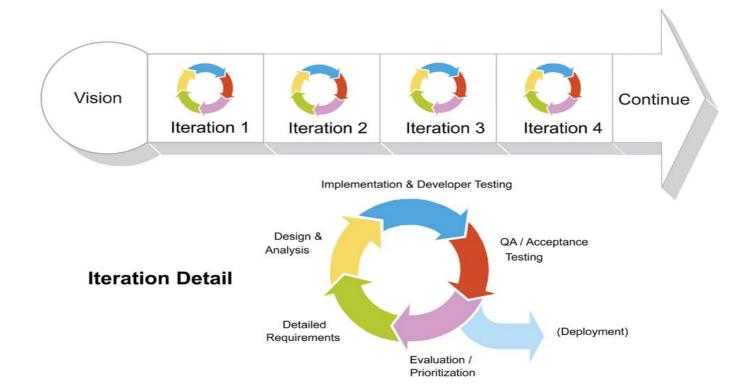


Waterfall



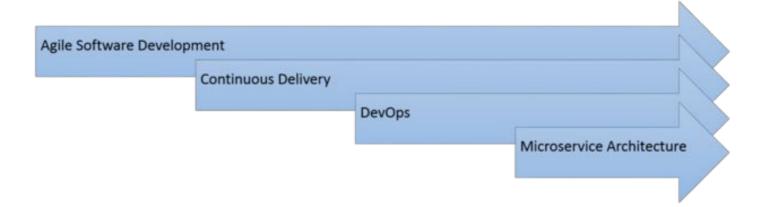


Iteration



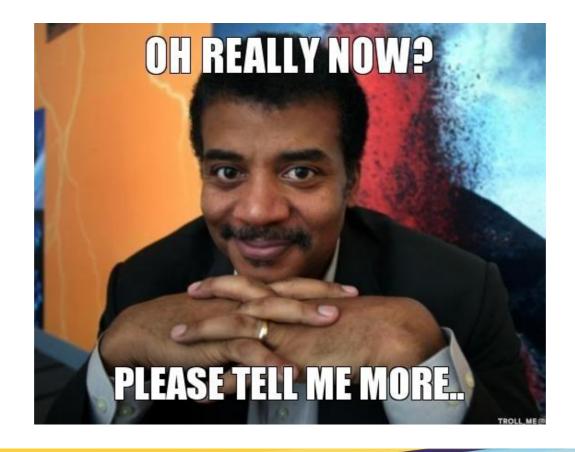


Phase of the Agile Progression





What are Microservices?





What are Microservices?

Microservices involve an architectural approach that emphasizes the decomposition of applications into single purpose, highly cohesive and loosely coupled services managed by cross-functional teams, for delivering and maintaining complex software systems with the velocity and quality required by today's digital businesses.

Microservices are language-, platform-, and operating system-agnostic. They can be used to break down a big monolithic application (typically packaged as a single archive that is vertically scaled up or horizontally scaled out) into smaller and simpler services. Each microservice does one thing, and does it well, so the "micro" in microservices refers to the scope of the services' functionalities, not the number of Lines of Code (LOC).

Each microservice is generally built by a full-stack team, which reduces potential communication difficulties between disparate teams that could otherwise be problematic. [Reynolds, Vineet. 2016]



Who use Microservices?





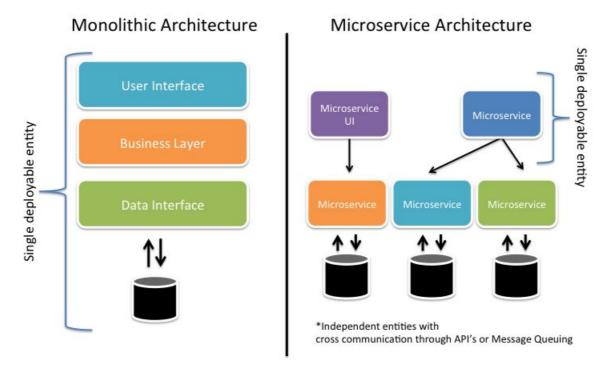








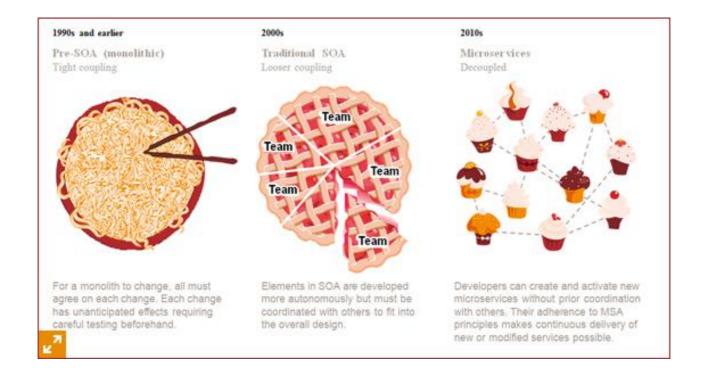
Monolithic against Microservice



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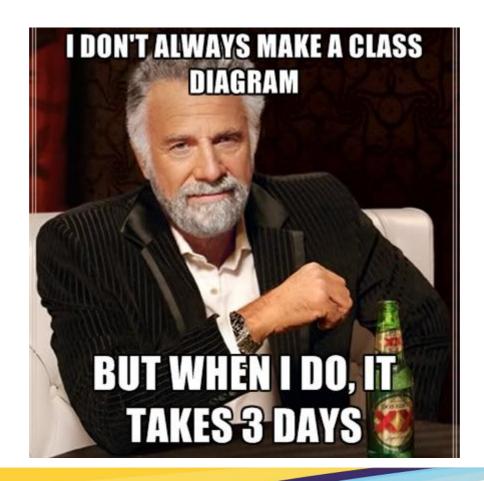


Pre-SOA, Traditional SOA and Microservices



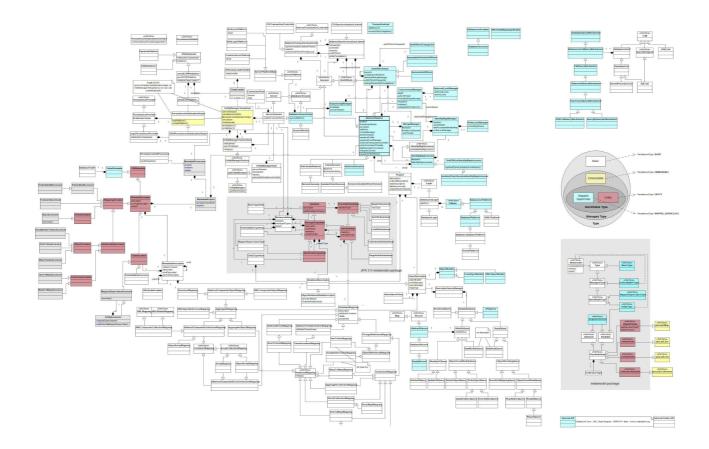


Specification



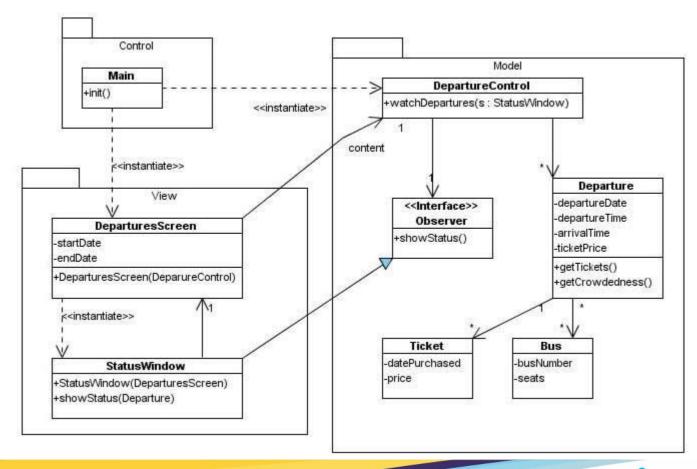


A Monolith



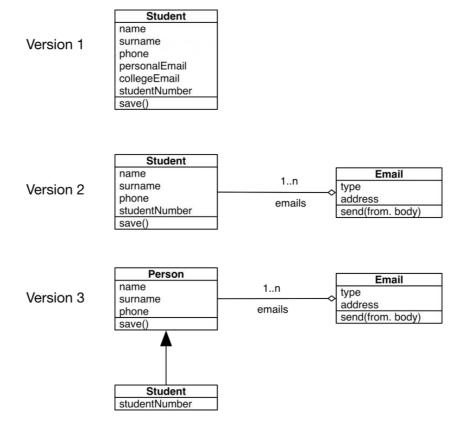


A Service Oriented Architecture





A Microservice



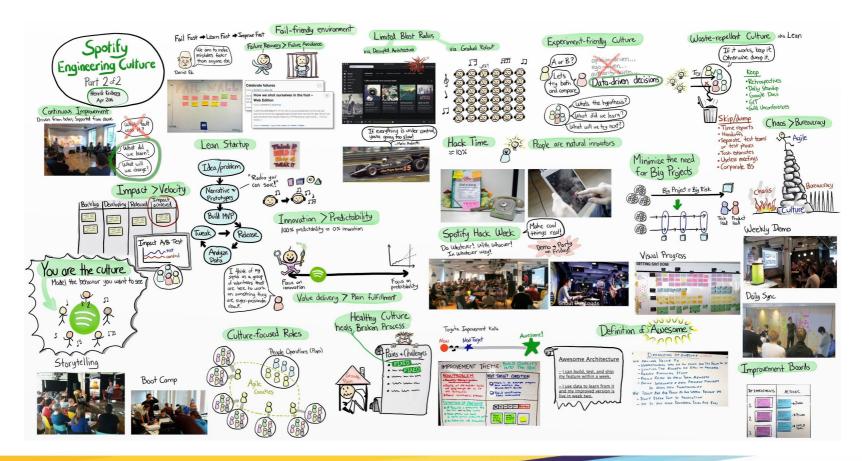


Benefits of Microservices

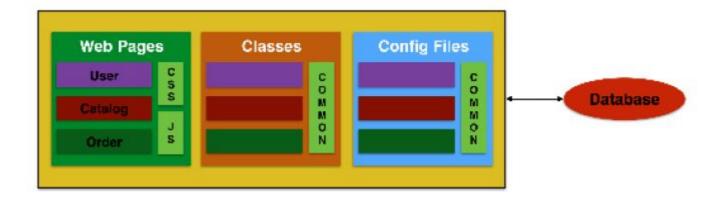
- Independent Scaling
- Independent Upgrades
- Easy Maintenance
- Potential Heterogeneity and Polyglotism
- Fault and Resource Isolation
- Improved Communication Across Teams



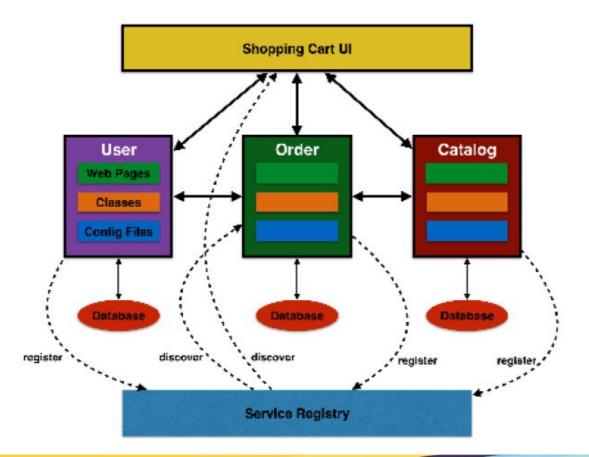
Benefits of Microservices













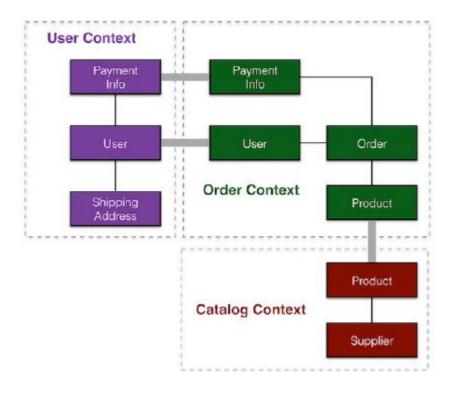






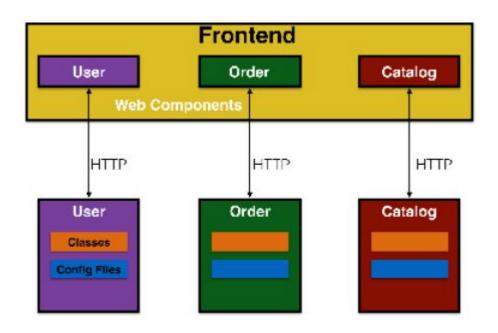


Patterns in Microservices



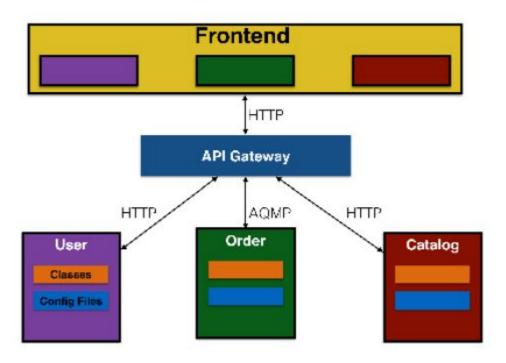


Patterns in Microservices





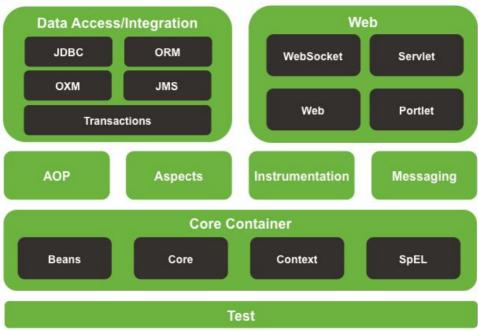
Patterns in Microservices





Spring Framework





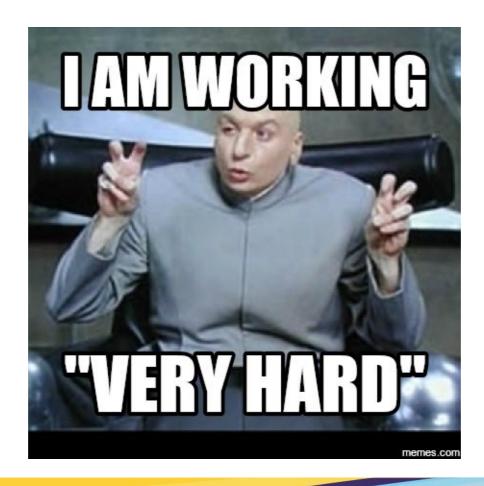


Real Examples

- Model
- Domain
- POJO (Plain Old Java Object)
- DTO (Data Transfer Object)
- DAO (Data Access Object)
- Repository
- Service
- Business
- Application
- MVC
- MVC2
- Controller
- Web
- Web Service
- Many others



Real Examples





If advice was good, didn't get along, if sold. (In HUE BR)



- Cloud

- BigData DevOps Container
- Microservices
- Continuous Delivery Continuous Deployment



How to learn MicroServices? (In HUE BR)





Tip #1 (In HUE BR)





Tip #2 (In HUE BR)





Tip #3 (In HUE BR)



- freeforme uma frase
- o tempo passou e eu sou free calado



- contratado

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◆ Reply ★3 Retweet ★ Favorite ··· More

FAVORITES

576

- Follow







- nível de inglês?
- alto
- traduza "too much"
- muito, demais
- formule uma frase
- detesto molho de too much





A MATERA Systems

Atuação desde 1987 Empresa S.A. desde 2007 Soluções instaladas em cerca de 90 instituições financeiras Uma das pioneiras em exportação de software Faturamento consolidado do Grupo MATERA em 2016: R\$ 70m







Cerca de 400 profissionais distribuídos em SP, RJ, Campinas, Maringá e EUA



Parcerias

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- Gerenciamento de Infraestrutura de Aplicações Desenvolvimento e Manutenção de Sistemas Migração de Aplicativos para a Nuvem

- Desenvolvimento Offshore
- DBA Oracle / SQL Server Consultoria WebSphere MQ Consultoria Linux



Alguns Clientes - Mercado Financeiro









































































Alguns Clientes – Mercado Corporativo



































Alguns Clientes – Mercado de Instituições de Pagamento





















Alguns Clientes – Solução para Gestão de Riscos

























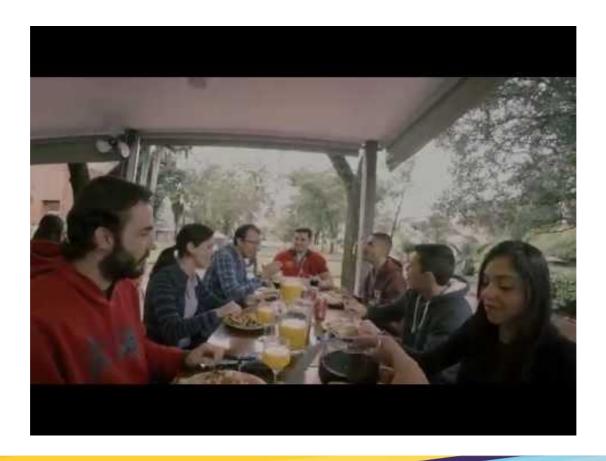








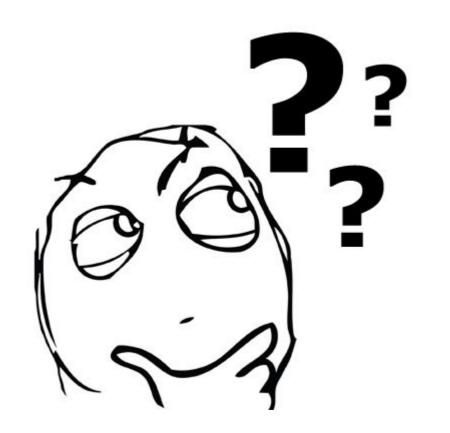
MATERA Systems











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