

WEBINAR

Your Transition to Microservices It's easier than you may think.

Joe Epplin Wednesday, March 13, 2019

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"Disruption is always good for someone."



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Myths We Are Exploding

- 1. Any change is a disruption
 - Decomposing the problem
- 2. Disruption is only a technology issueConnecting business and tech
- 3. Disruption is only for digital giantsThis process works for all businesses





- 1. Starting Point
- 2. Not All That Bad
- 3. Transitioning
- 4. Recipe





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Monolithic Legacy Systems





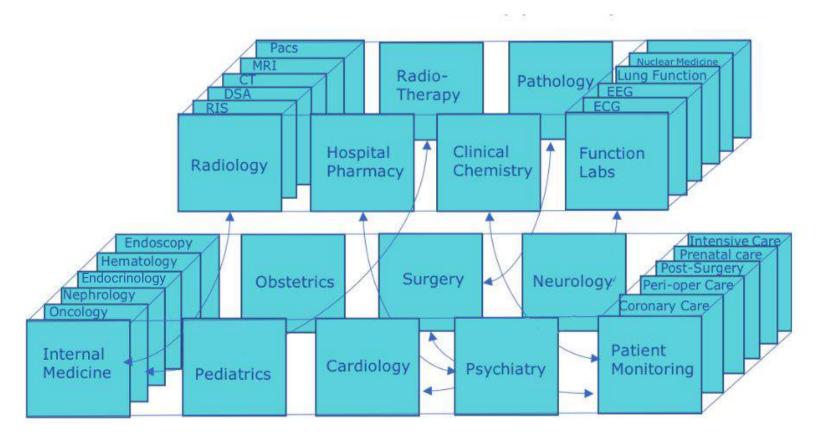




Example Monolithic System



Clinical Support Systems



Clinical Departmental Systems

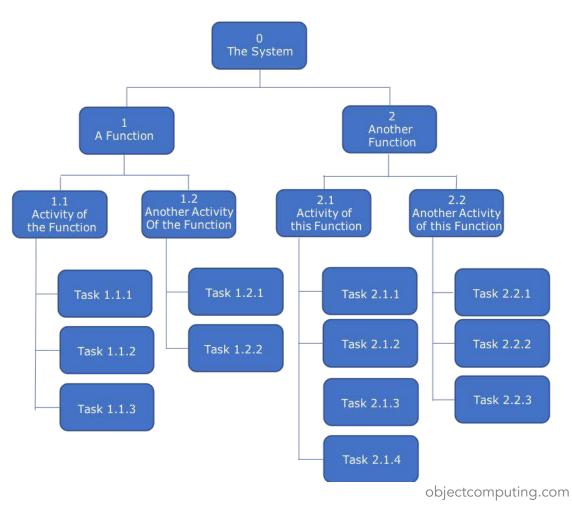


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These Systems Support Business Processes



Decomposition Diagram (Hierarchy Chart)



There is a taxonomy for these processes.

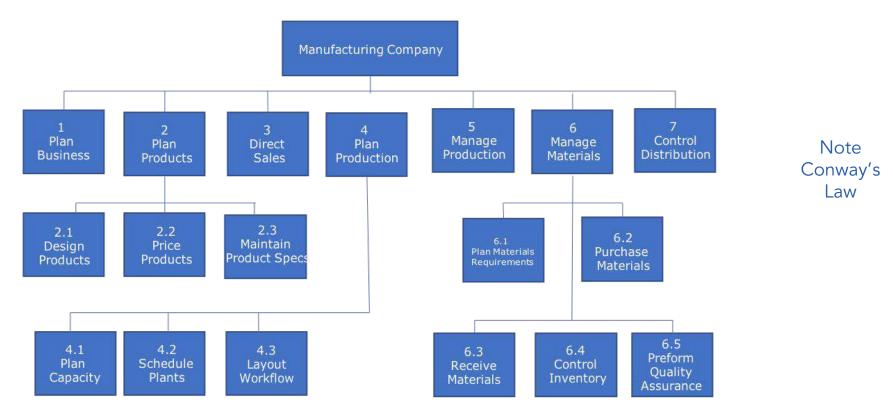
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Sample Decomposition

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There is a taxonomy for these processes

Enterprise Level Function Chart

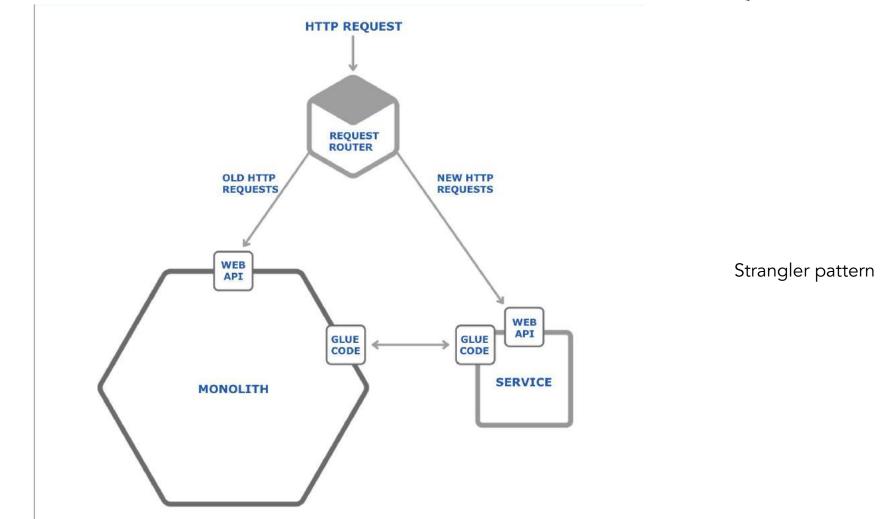


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Monoliths and Microservices Can Coexist





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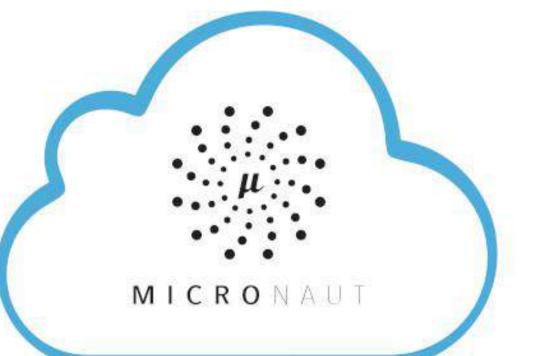
Recipe

Technical Aspects

Declarative, reactive, compile-time HTTP client

Non-blocking HTTP server built on Netty

Fast and easy testing





Efficient compile-time dependency injection and AOP (not reflection)

Fully reactive and non-blocking apps

Built in cloud support (common discovery services, distributed tracing tools, and cloud runtimes)















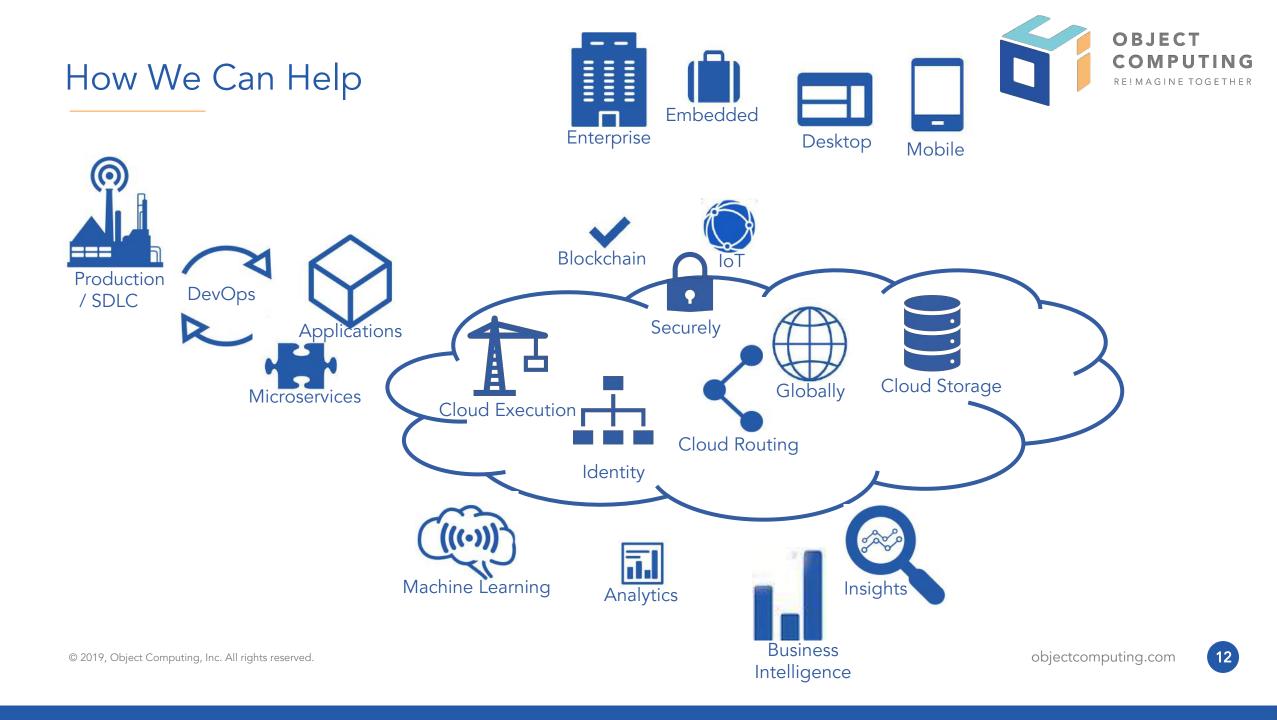
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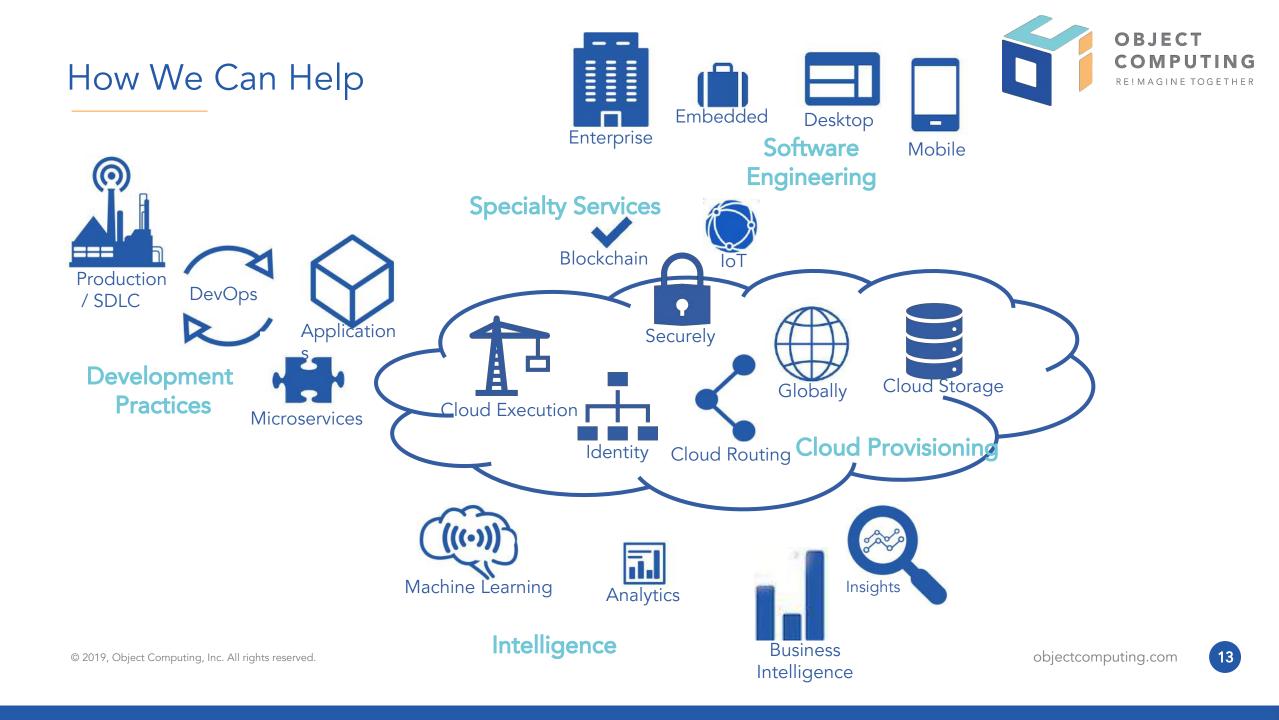


Business Process Decomposition / Refactoring

- 1. Model systems with highest business value first
- 2. Do something concrete with the model as quickly as possible
- 3. Grow from there
- 4. Highlighting business process inefficiencies will inform the microservice architecture
- 5. Diagrams should fit on one page
- 6. Manage different versions of the diagram for different stakeholders
- BPD depicts information flows in business processes, not data flow (Conway's Law)











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