Simple Scalability - Microservices on PaaS

Colin Humphreys

@hatofmonkeys

Please ask questions via the mobile app!



<u>Engage</u>



Simple Patterns Organisational Architectural Operational

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Fast feedback

Teams deliver business value Measurable metrics

Four pairs Two-pizzas

Authoritative PO What are we doing? When is it done?

T-shaped people

Domain-Driven Design Have a conversation

Inception Iteration Planning Meeting Retrospective

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Partitioning Strategies Single-responsibility Bounded contexts

Create pipelines of microservices cat text.txt | grep hello | sort

Communication Strategies Sync – HTTPS/json Async – Msg Q/json

Communication Strategies Design for failure Circuit breakers

Data Immutable idempotent events

Data 12-factor applications 'PaaS' compatible

Let microservices die

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Continuously deliver Start with CD pipeline 'helloworld'

Words

accept → wordcount → view

github.com/hatofmonkeys/microservices-demo

Blue/green deployed front-end Shock absorber

Deploy to local containers

Deploy to PaaS

Deploy to your PaaS

Deploy to your laaS

Deploy what you need When you need it

Scaling

Instrumentation Response time of function Error rate Trace ID

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But I have a monolith! Shake it

But I must Docker! Fock it

github.com/cloudcredo/cloudfocker

Please evaluate this talk via the mobile app!



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