

The Evolution of Large Scale Payment Platform

A SECTION AND A



Chuck Chen

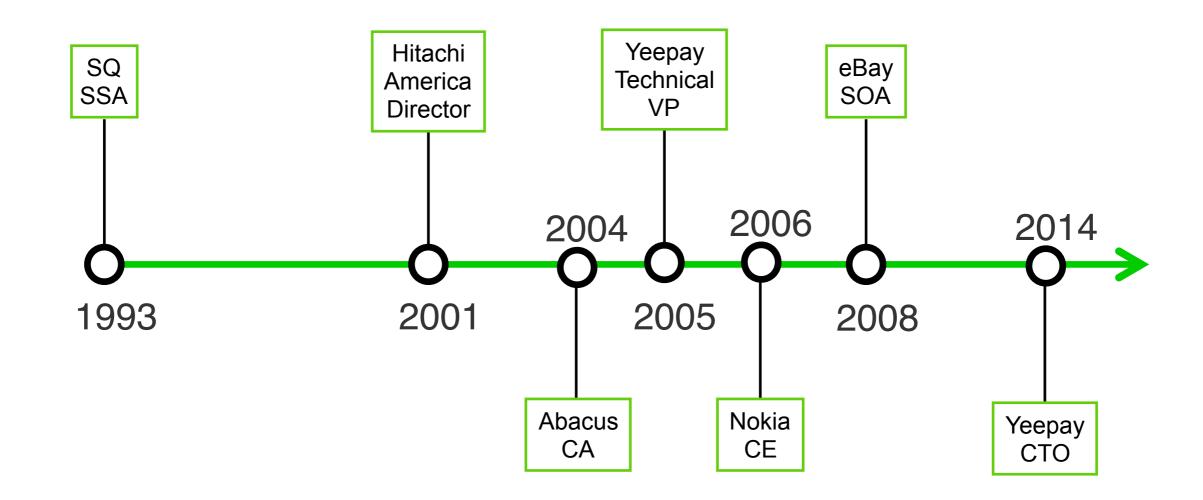
2017.08.10

6

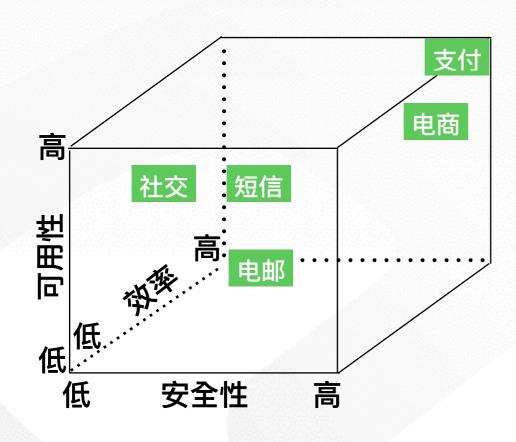


ABOUT MYSELF









Payment Transaction Platform

Availability

Security

Efficiency

Availability: 7 X 24 X 365

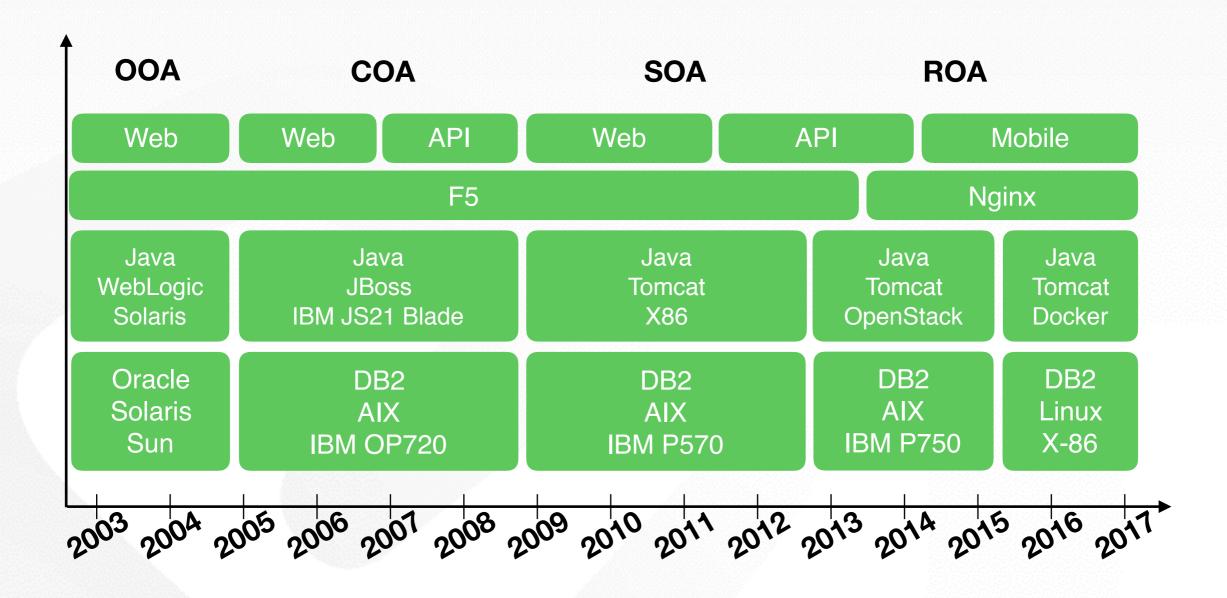
• Security: PCI-DSS, ISO27000

Efficiency: Low cost

RMB20B/Year, 5000TX/second

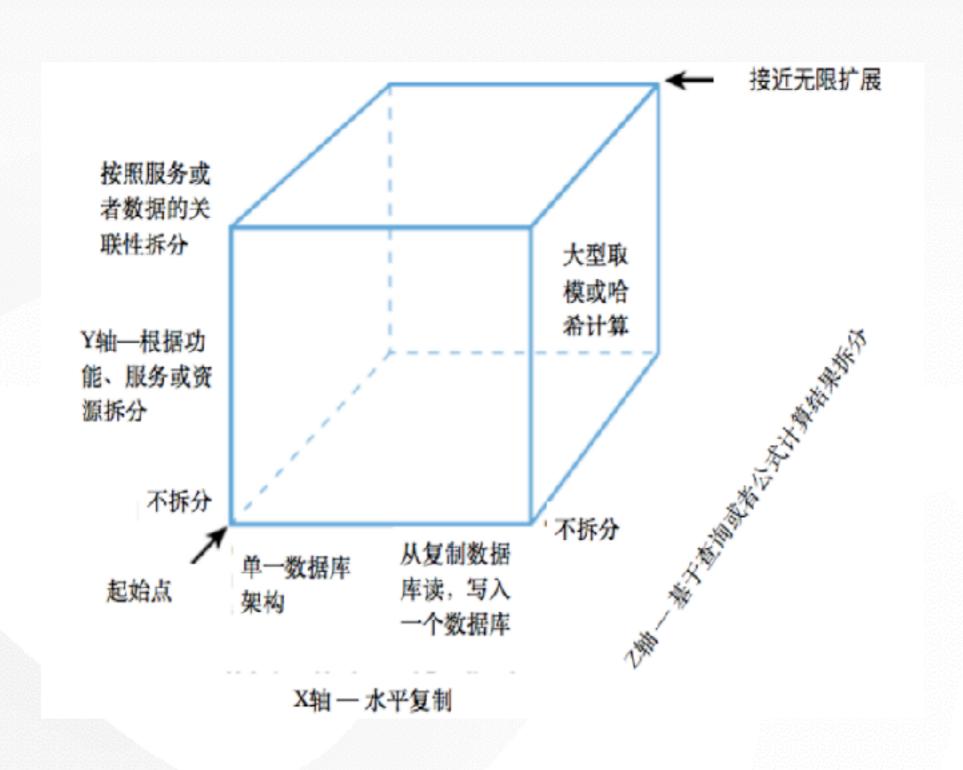
EVOLUTION OF THE PLATFORM





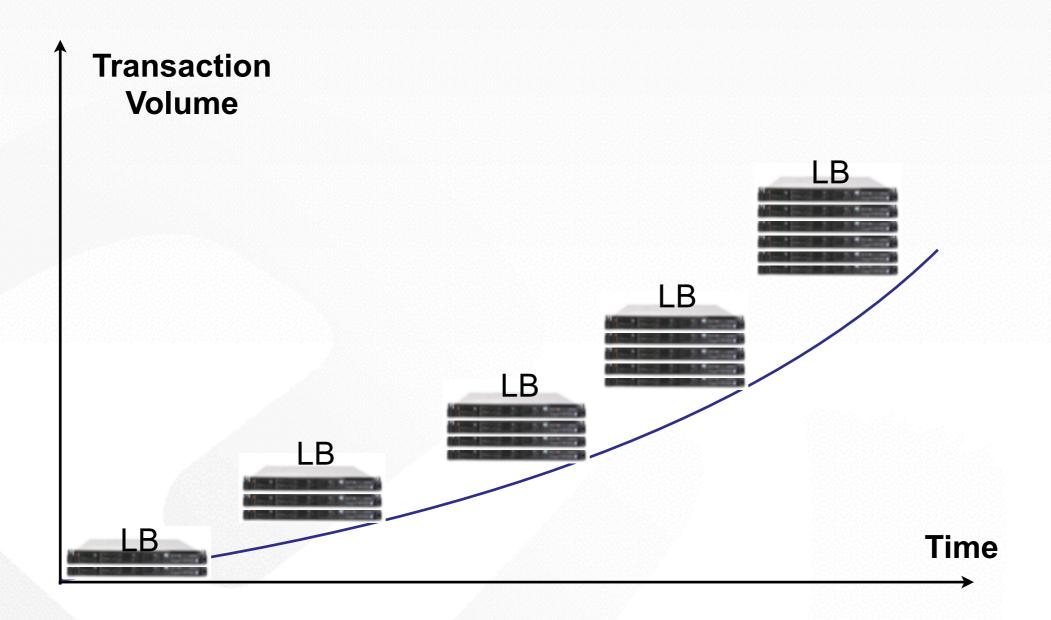
NKF 3 AXIS SCALABILITY





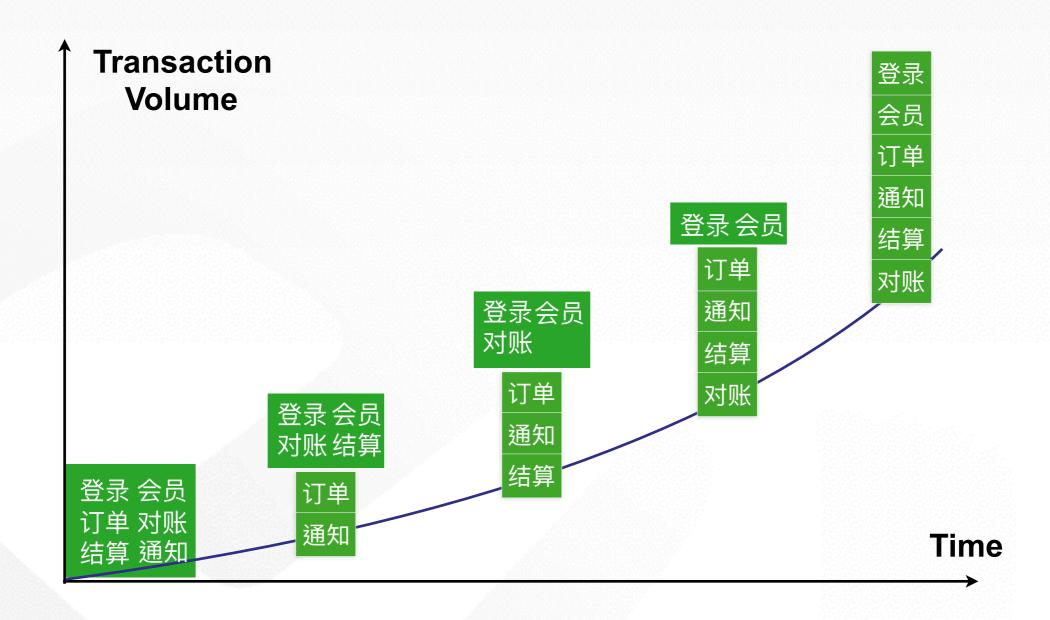
X-HORIZONTAL SCALABILITY





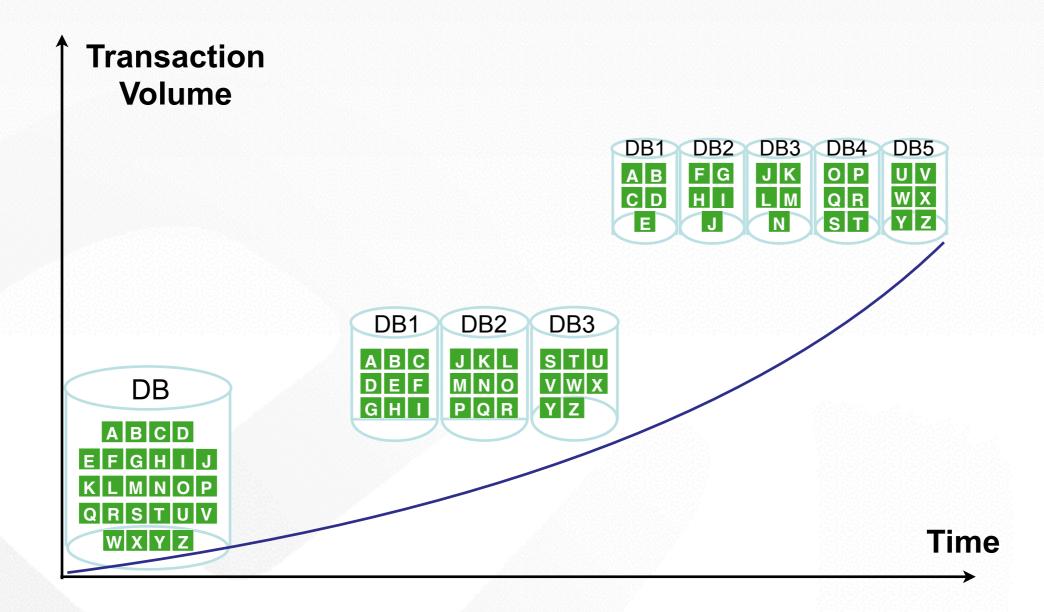
Y-APPLICATION SEPARATION





Z-DATA SEPARATION

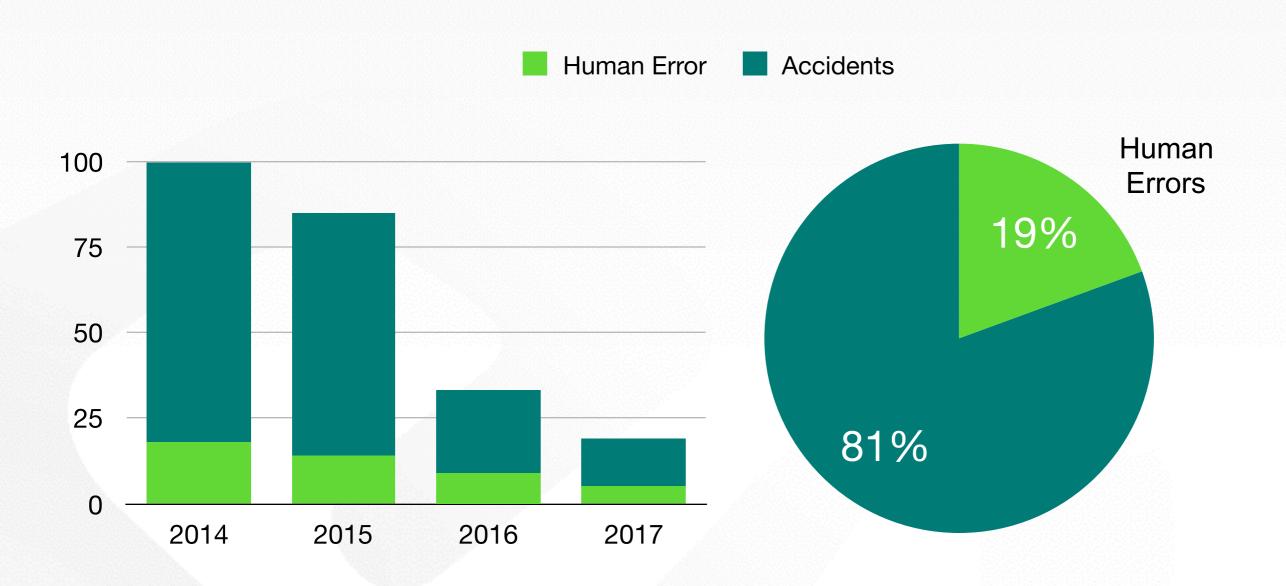




TRANSACTIONS INCREASE RAPIDLY @ 是实际



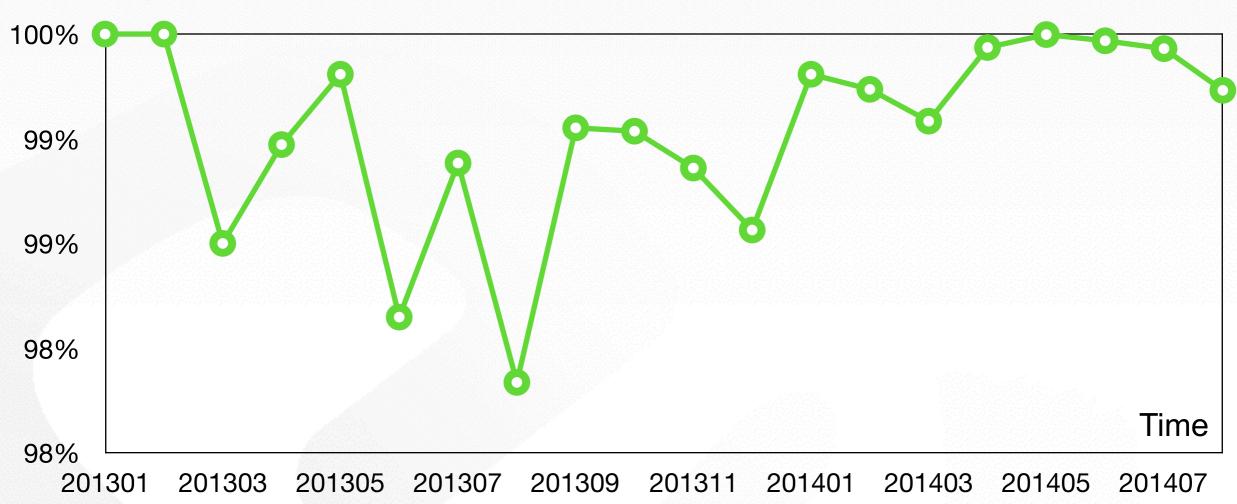




FLUCTUATION OF AVAILABILITY







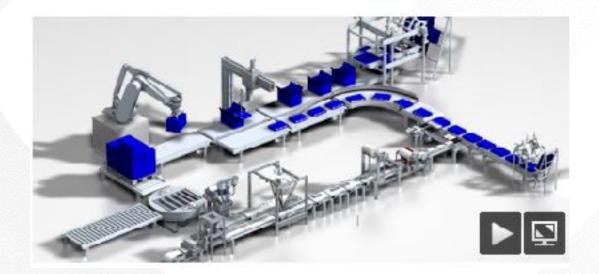
OPERATIONS CHALLENGES



- Human Errors
- Boring Routing Works
- Complicated Instructions



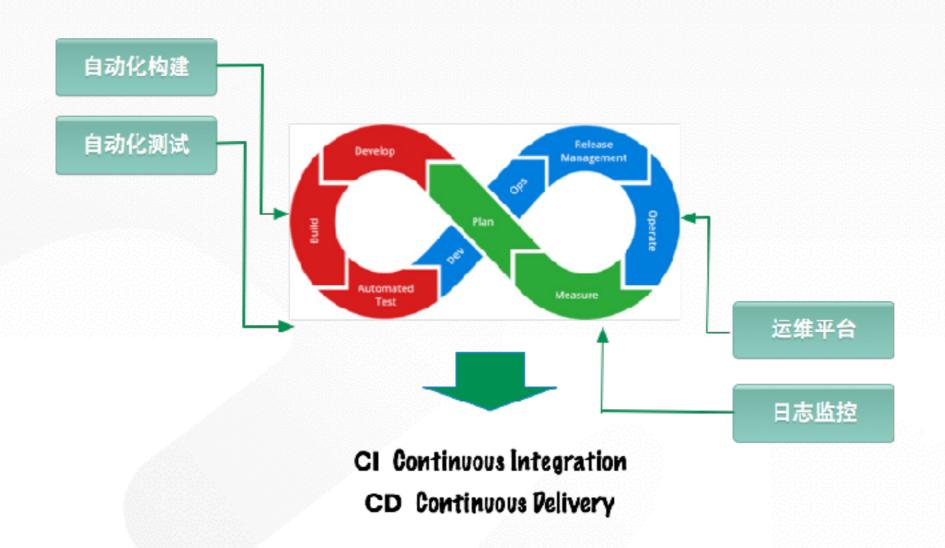




- Automatically handle routine works
- Lower cost
- Better Loyalty
- High Reliability

DEVOPS





WHY WE PICK DOCKER











功能比较简单

技术栈简单

非稳定版

偏重资源抽象

技术栈复杂

大规模场景

自主研发

投入产出比低

项目风险大

机会成本太高

理念先进

以应用为中心

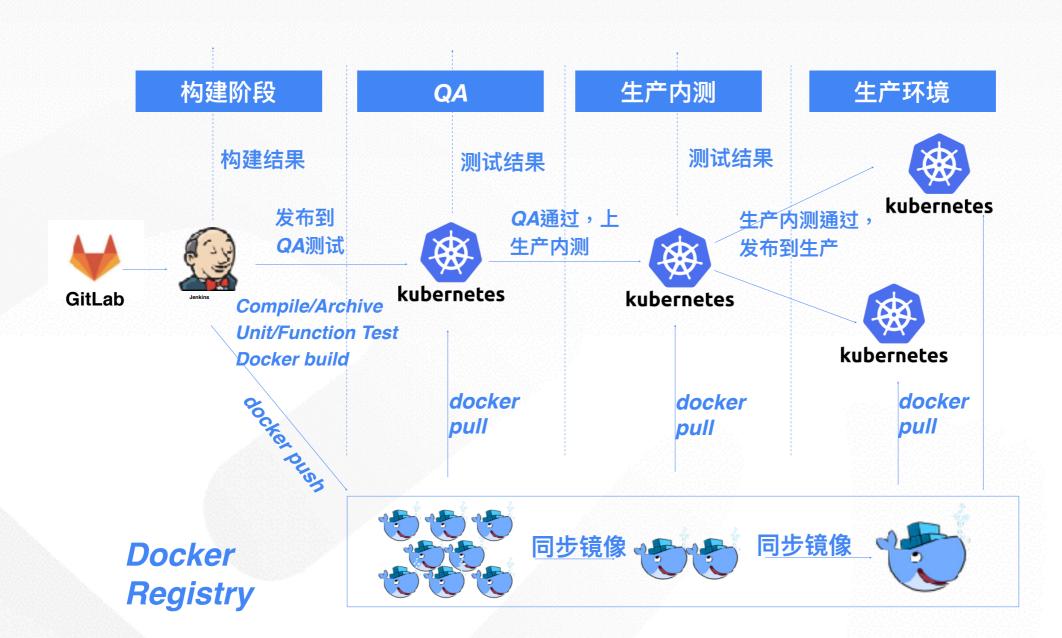
Web应用为主

功能完善

Pass!

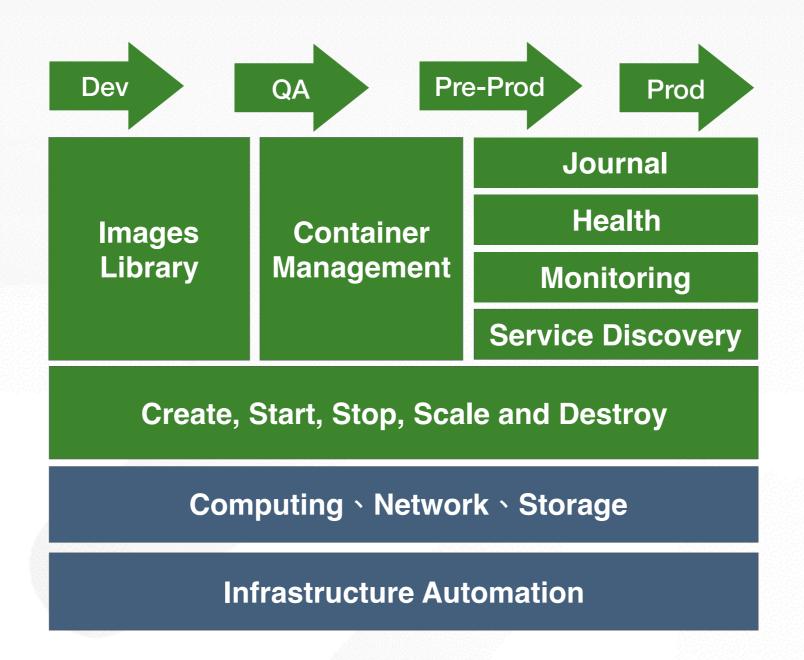
PRIVATE DOCKER CLOUD





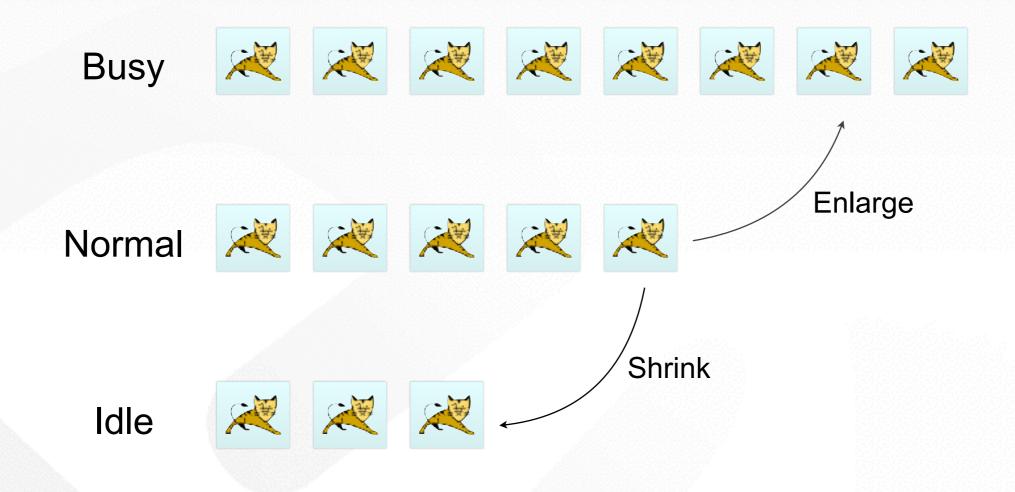
ARCHITECTURE OF THE CLOUD





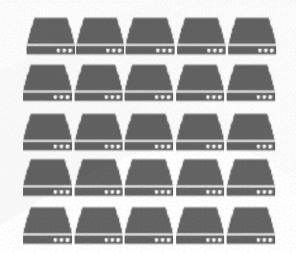
RESILIENCE/FLEXIBILITY





IMPROVEMENTS OF OPS

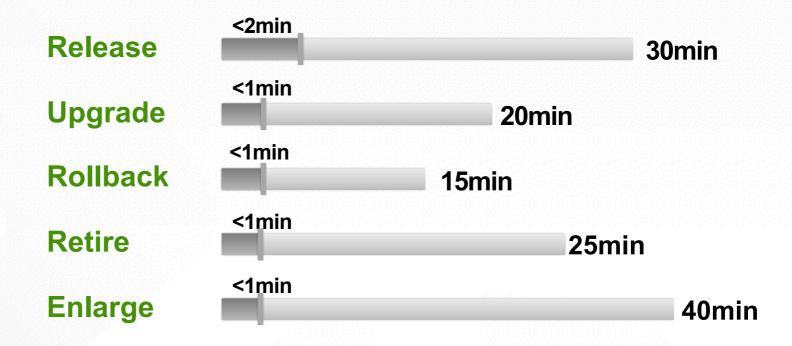




5:1



Before & After

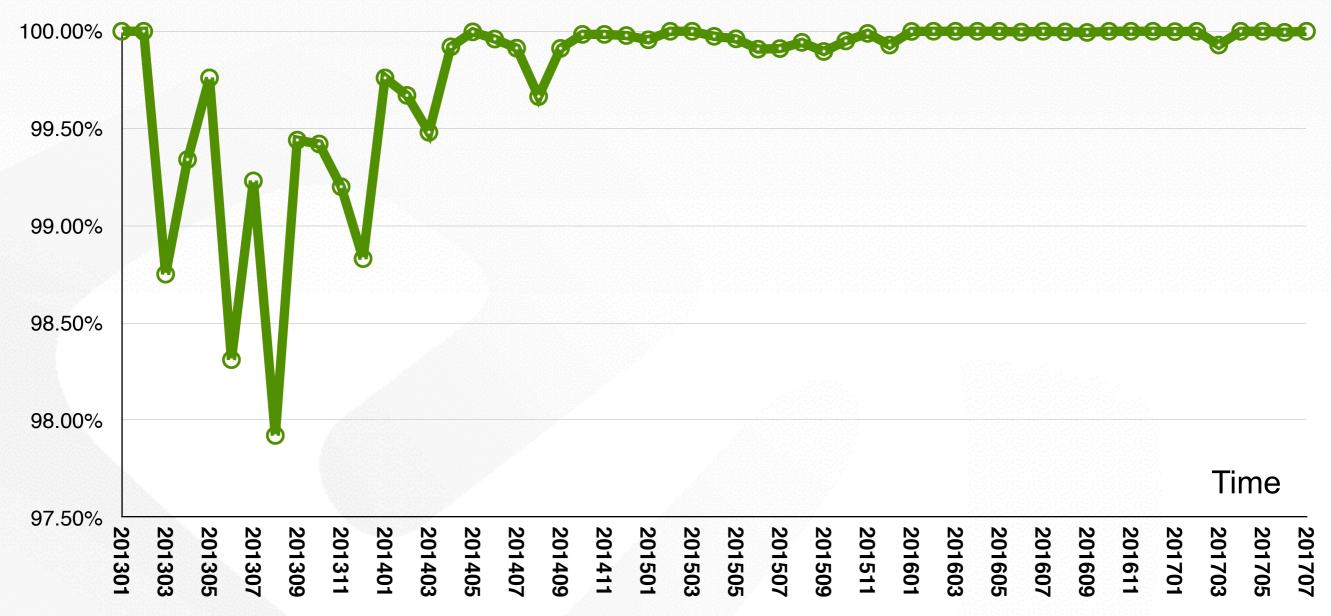


Elapse Time

AVAILABILITY IMPROVED

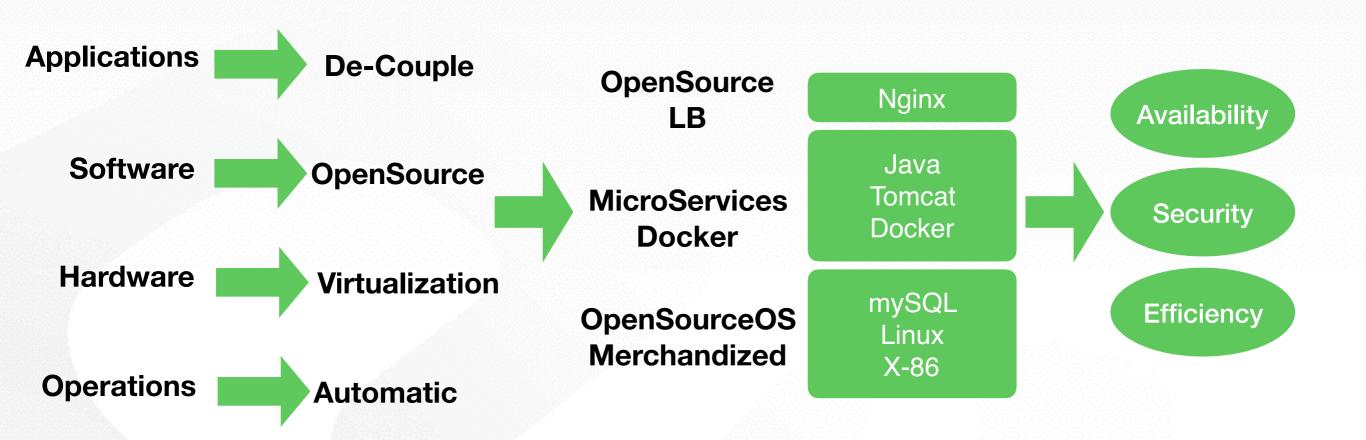






FUTURE TRENDS





Thank You!

谢谢!



Chuck微信



Docker公众号