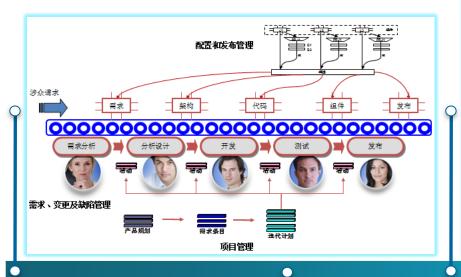
**IBM Software** 

# 持续交付/DevOps和云

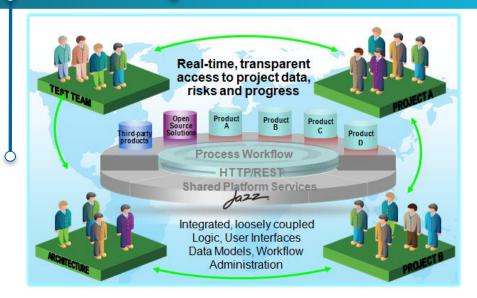
IBM 资深技术顾问 赵静



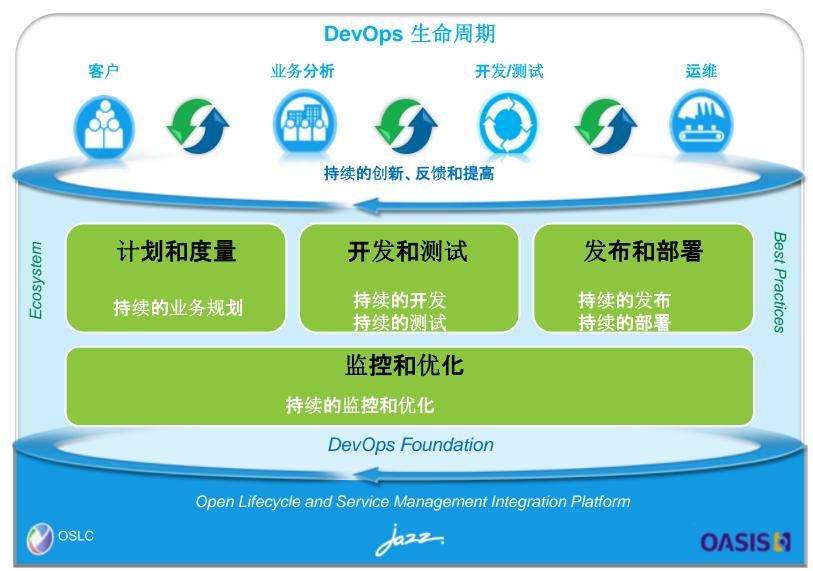
#### 软件交付核心战略的转变历史





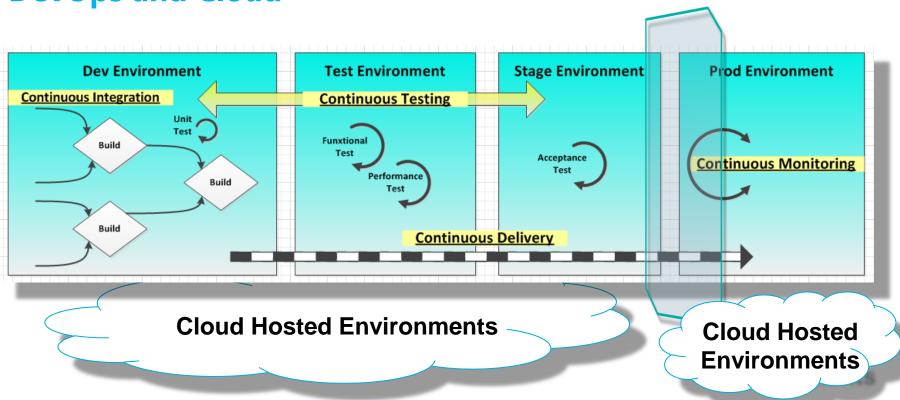


#### IBM DevOps架构





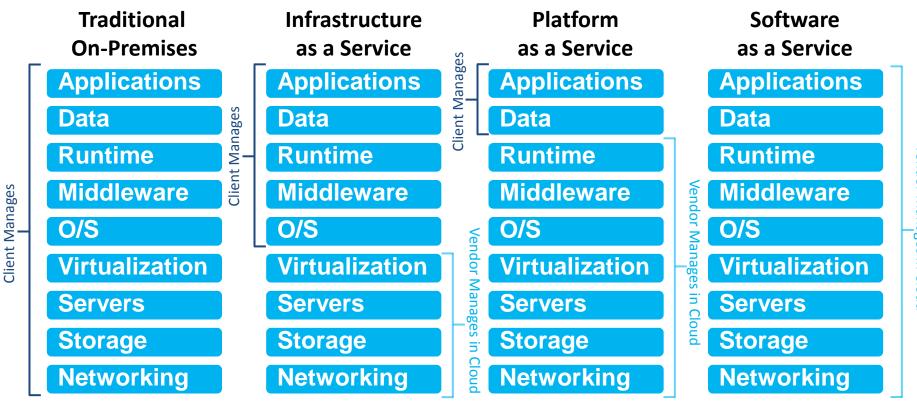
## **DevOps and Cloud**



Dev-Test (pre-Prod)	Prod
On-Premises	On Cloud
On Cloud	On-Premises
<sub>c</sub> On Cloud	On Cloud

# Vendor Manages in Cloud

#### 云服务模型



Customization; higher costs; slower time to value

Standardization; lower costs; faster time to value



### IBM云能力中Paas层面解析

#### --Rational品牌所关注的重心

#### Think it. Build it. Tap into it.

#### **Process Optimized Platform as a Service**

Application development

Application testing

Application lifecycle Management

Application governance

Application onboarding Continuous delivery

#### **Advanced Platform as a Service**

Data caching services

Auto scaling

Cloud bursting

Workload automation & scheduling



#### **Managed Platform as a Service**

Identity management & security

**Application** monitoring

Application performance monitoring

License Management Mobile Management

#### Simple Platform as a Service

Provisioning & automation services

Middleware pattern deployment

Application metering

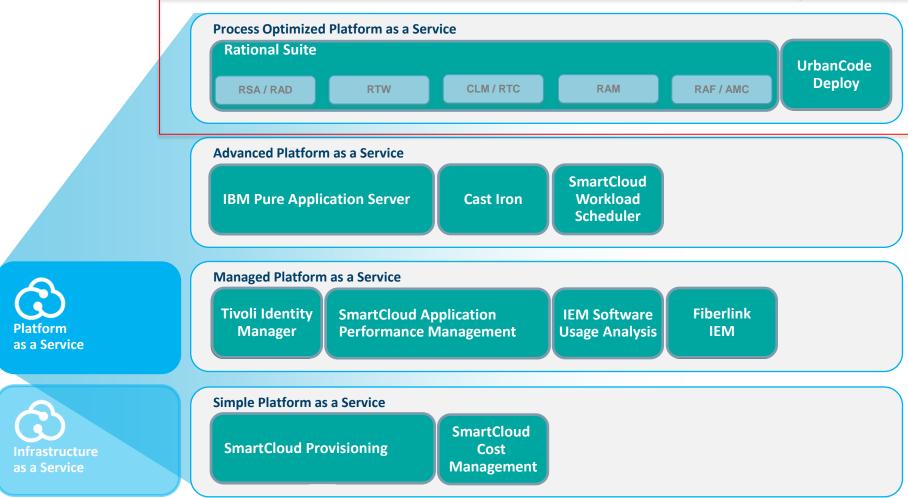
Public. Private. Dynamic Hybrid.



### IBM云能力中Paas层面解析

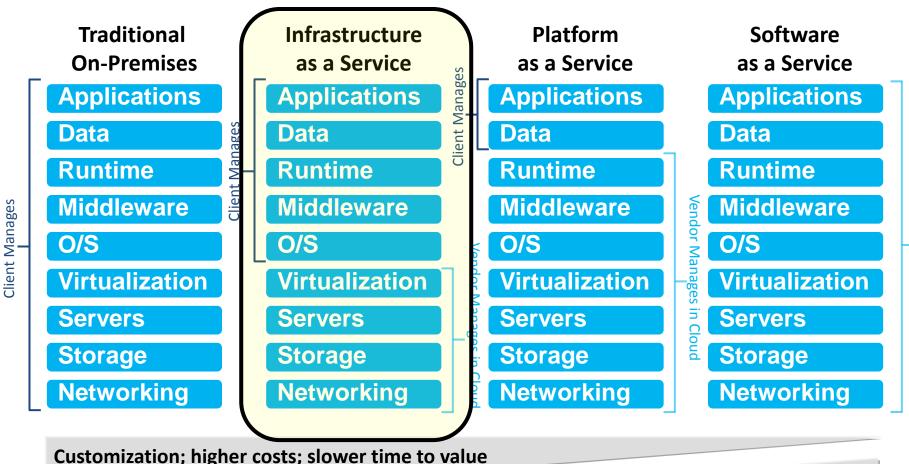
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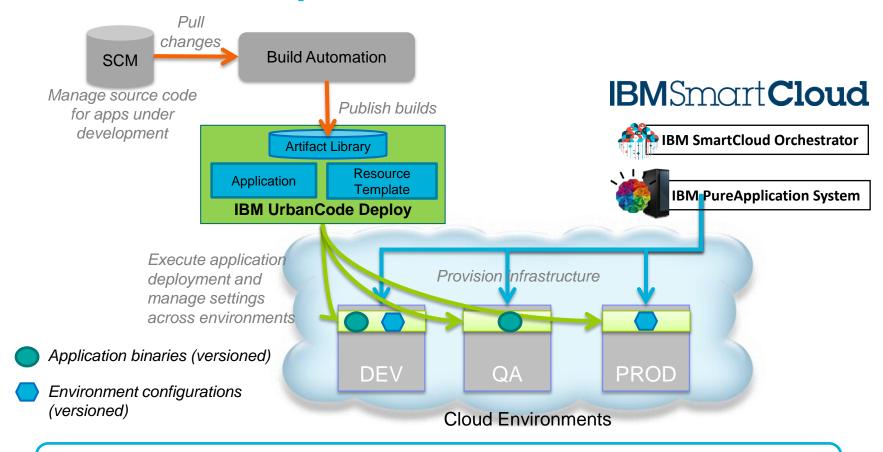
#### 云服务模型: Iaas



Standardization; lower costs; faster time to value

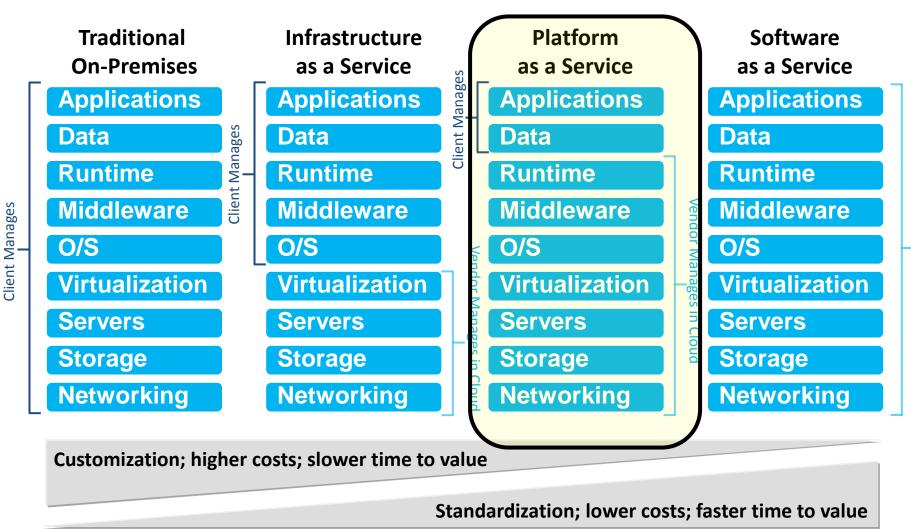


## **Continuous Delivery with Cloud: IaaS**



- Cloud Platform provides base images to utilize as environment Instances can be configured for applications deployed
- Deploy early and often to ensure high quality and faster releases using repeatable, reliable, and managed automation - Seamless process flow for incremental, full stack provisioning and application deployment automation

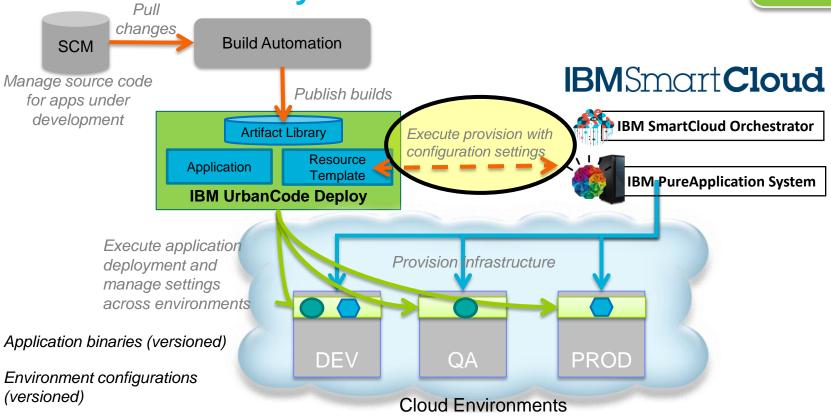
#### 云服务模型: PaaS





#### **Continuous Delivery with Cloud: Paas**

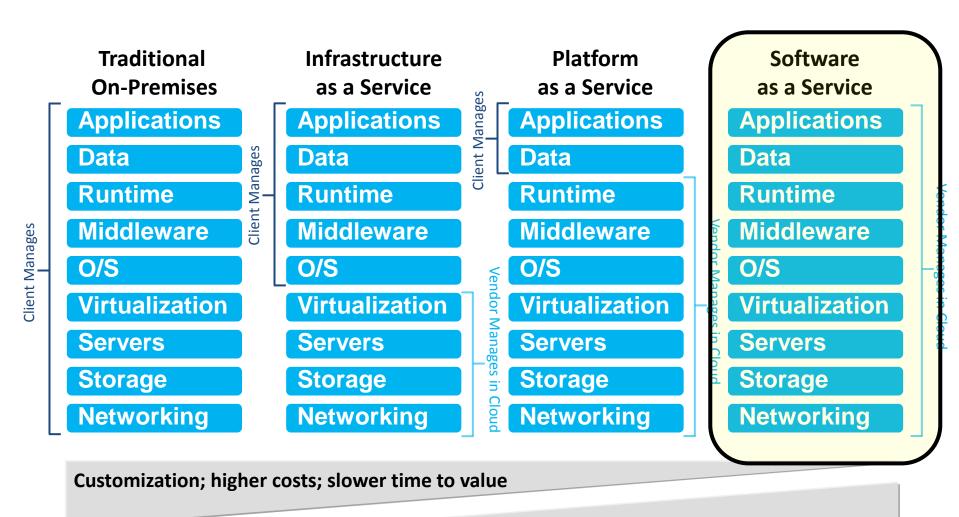
Release and Deploy



- Automate provisioning of environments as part of the end-to-end delivery process – Establish and automate deployment of Application Blueprint with resource templates imported from Cloud patterns.
- Deploy early and often to ensure high quality and faster releases using repeatable, reliable, and managed automation - Seamless process flow for incremental, full stack provisioning and application deployment automation



#### 云服务模型: SaaS

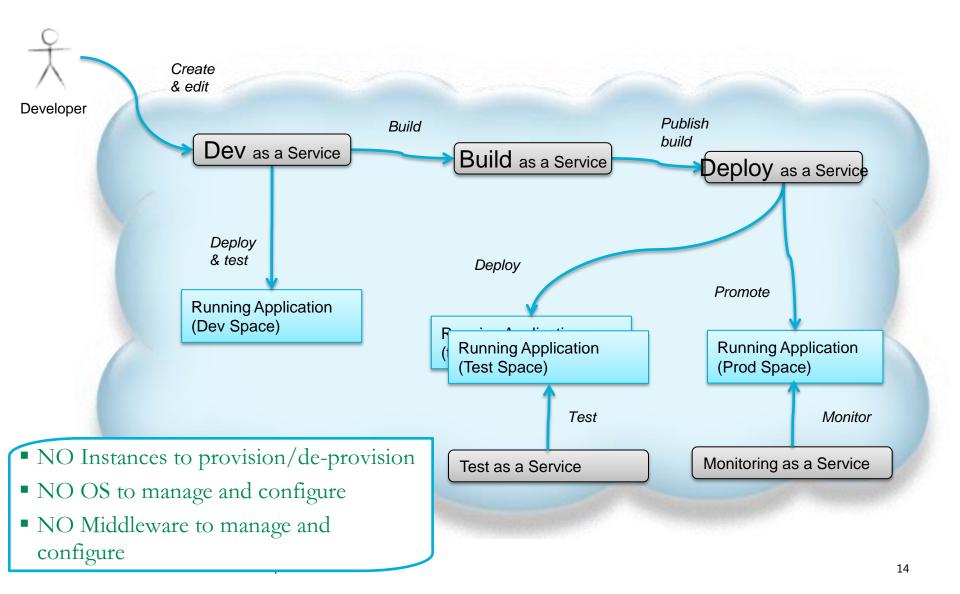


Standardization; lower costs; faster time to value



## **Delivery pipelines for SaaS**

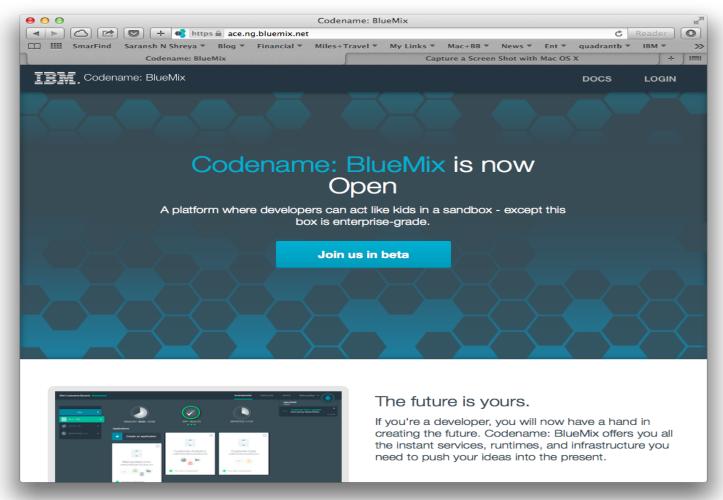
Everything is a service in the Cloud





#### **IBM Bluemix: Now in Beta**

#### https://ace.ng.bluemix.net/









SQL Database

**JSON** Database



Mongo DB



MySQL



Agile

Development

PostgreSQL



**BLU Data** Warehouse



Internet Of

**Things** 

MapReduce

Mobile Services



Push



CloudCode Mobile App



Mgmt



Mobile Quality Assurance



Mobile Data



Twilio

Web & App Application



Data Cache Session



Cache

Elastic MQ



Decision



SSO



Redis



RabbitMQ



Historian

**MQTT** 

Log Analysis

#### **DevOps Need #1**



"I want to build, deploy and optimize mobile and cloud applications quickly."



#### **DevOps Services**

Software development in the cloud



"I want to build, deploy and optimize mobile and cloud applications quickly."

- Easy Access Get started for free. With Git hosting and the built-in Web IDE, it's zero to code in seconds.
- Code Now Use the built-in Web IDE, Eclipse, Visual Studio, or your tool of choice.
- Automated Deployment Auto-deploy your applications to IBM's cloud platform, Codename BlueMix.
- Team Collaboration Share your work and collaborate through expert tools for Agile Development.







"I want to build, deploy and optimize mobile and cloud applications quickly."

## 使用DevOps Services 快速开发应用 示例

#### **DevOps Need #2**



"I need to monitor the user experience of my mobile and cloud apps and respond quickly."





## Why do mobile apps get bad ratings?

Crashes

Security concerns

Slow load times

Freezes

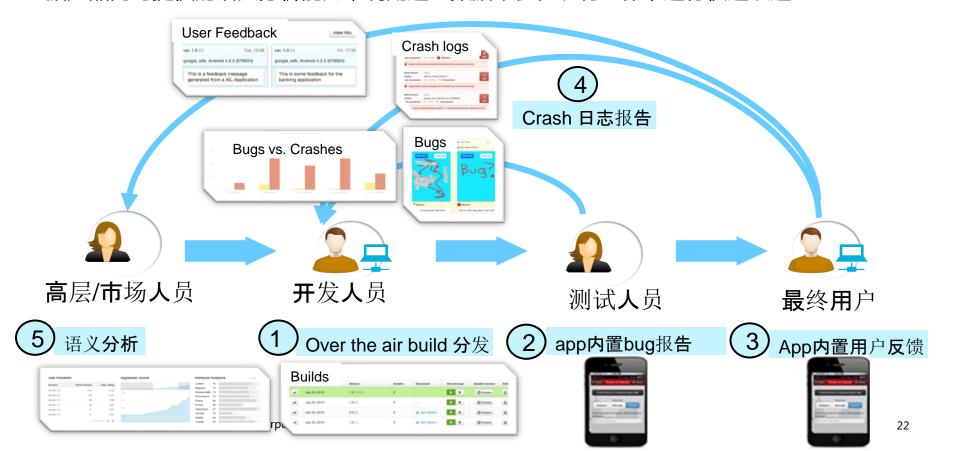
Poor user experience

Displays an error

Memory consumption

### IBM Mobile Quality Assurance (MQA) Open Beta

- 产品定位和价值: 收集用户反馈和质量度量值, 快速改善用户体验和app质量。
- •使用场景简介: IBM MQA产品可以针对用户已有的Mobile app进行插桩,去捕获测试人员或者最终用户的体验,包括带有上下文的应用崩溃报告、内置于app的bug报告、内置于app的用户意见反馈和其它质量度量,这些信息被是收集到MQA Saas服务中,团队就可以根据产品同时提供的语义分析能力,利用这些数据来优化现有工作,进行快速改进。







"I need to monitor the user experience of my mobile and cloud apps and respond quickly."

### 使用MQA Services 进行Bug收集 示例



#### 总结:持续交付管道

