

**ORACLE
CODE**



Kevin Walsh
甲骨文产品开发高级副总裁

使用API, 微服务及聊天机器人助力现代应用开发

Live for
the **Code**

Building Modern Applications Using APIs, Microservices and Chatbots

Develop. Deploy. Iterate.

Kevin Walsh

Senior Vice President
Product Development

华凯文

甲骨文产品开发高级副总裁



Exciting Times to be a Developer!

Modern Application Development Requirements

Polyglot
Microservices



API Management



DevOps Tools



Chatbot
& Mobile



Performance
Monitoring



Containerized
Applications



What has Changed for a Developer?

- Hard coded Elements ▶ **Dynamic assembly of blended experiences**
- 12-18 month app dev cycle ▶ **Zero-time dev cycle** (days or even *hours*)
- Centralized teams ▶ **Distributed teams, different preferences** (for polyglot)
- Monolithic ▶ **Smaller components** (for microservices)
- Building just another app ▶ **Create engaging interfaces** (mobile, bots, etc.)
- Developing functionality first ▶ **API-first design**

Some things that I'd like to share today

Changing the way we code



API-first
Development



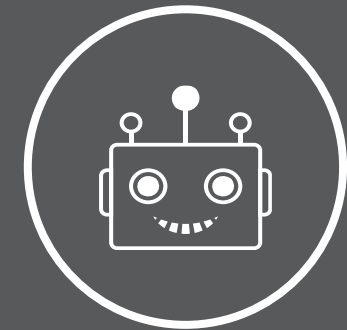
Microservices

Enhancing application functionality



Extending your SaaS
Applications

Seizing the future



Chatbots and
Artificial Intelligence



API First: Design and Development

Why Does API Management Matters for Developers?



Improve **agility** & quickly meet user demand



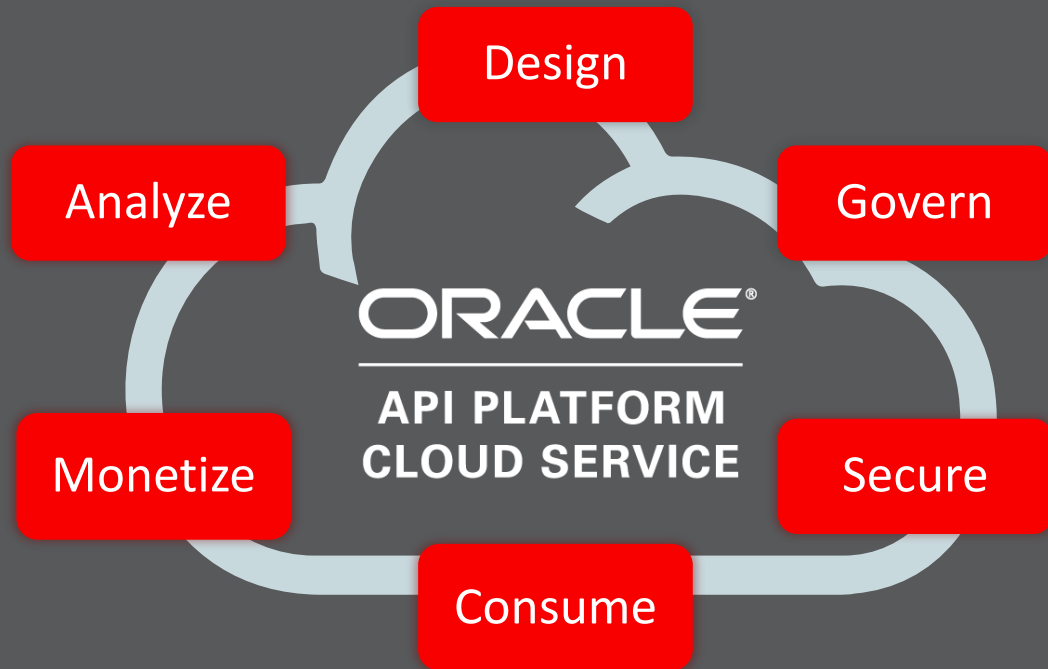
Ensure **security** of your APIs



Gain **visibility** & define the *right* metrics

Full API Lifecycle Management

ORACLE® +  apiary

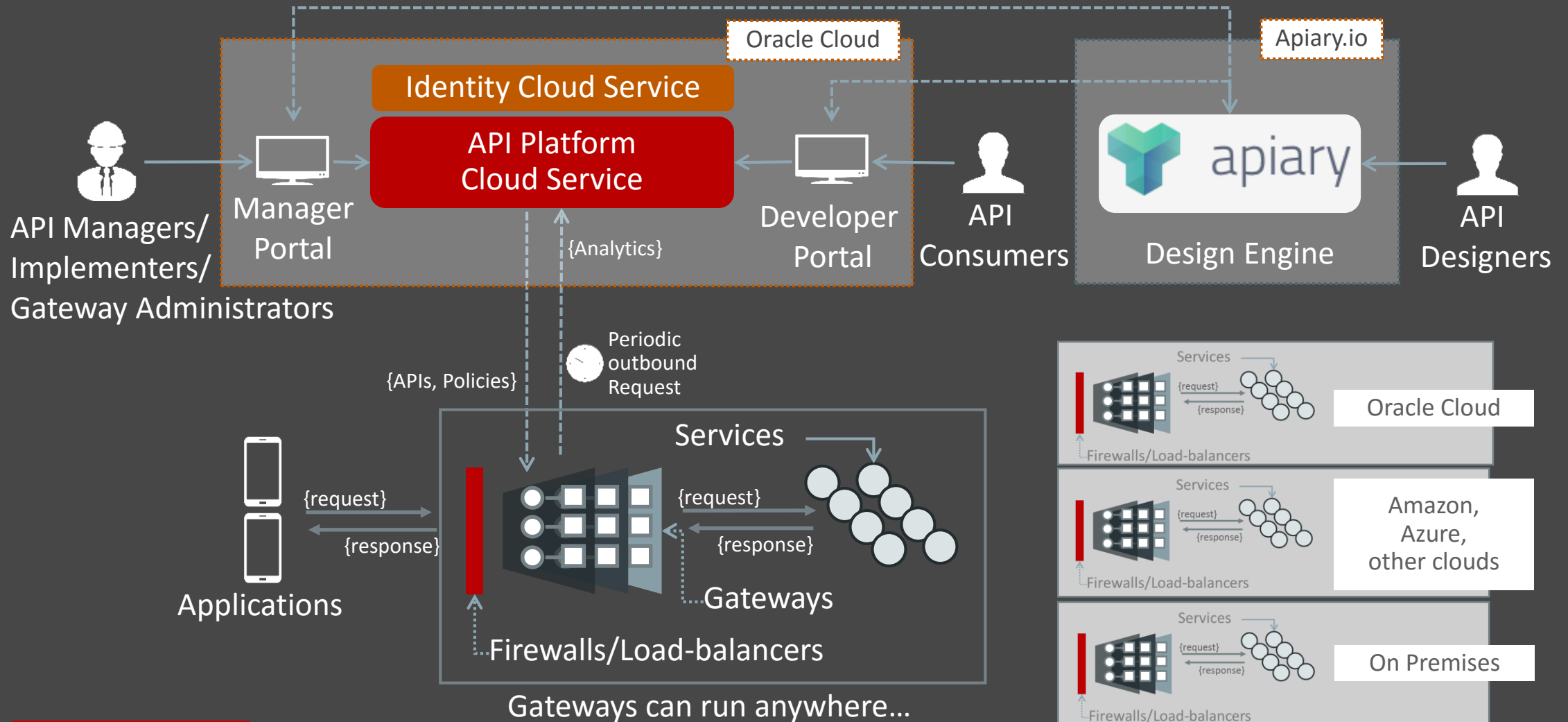


Delivers rich developer tools to create and manage APIs

- Rapidly design & prototype APIs
- Run mock tests
- Ensure security with policy-driven APIs
- Gain visibility & insight to understand usage
- Integrate with favorite DevOps tools
- Release early & often!

220,000+ API Developers
2.1M+ API Consumers

API Platform Cloud Service



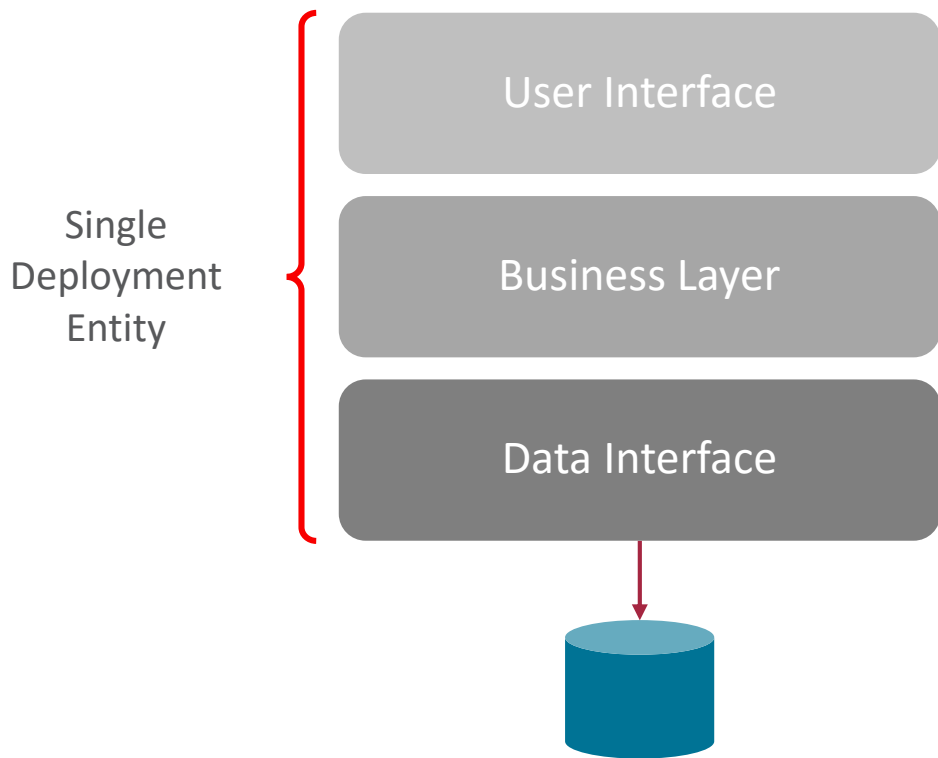


Microservices: Build, Deploy & Iterate

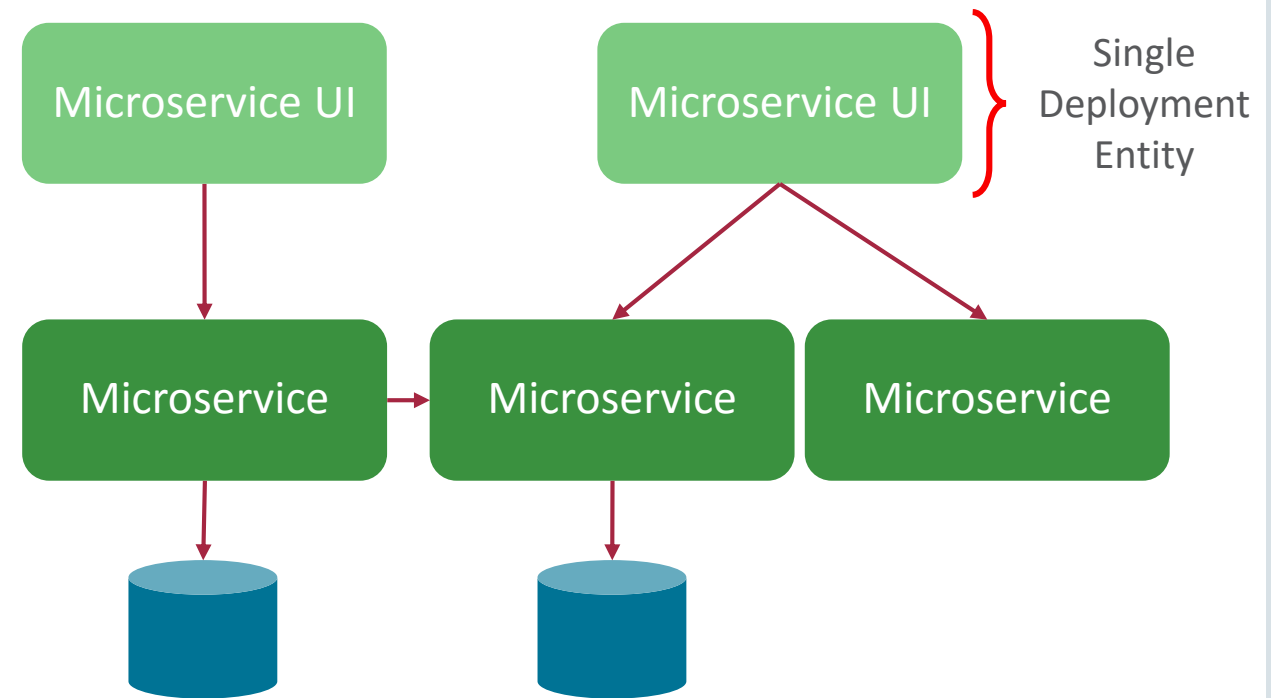
Enabling the Move from Monolithic Apps to Microservices

Modern Cloud Native, Agile, Polyglot, DevOps Driven Application Development

Traditional Monolithic Architecture



Microservice Architecture



Independent services with communication using REST APIs/HTTP

Oracle Cloud: Open, Modern, *Easy* Microservice Development

Developer Tools

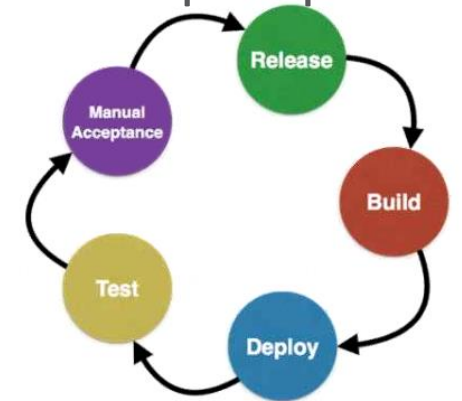


Polyglot AppDev Platform



Microservices + Serverless

DevOps Pipeline



Container Service and Registry

Common Services

Configuration

Elasticity

Eventing

Orchestration

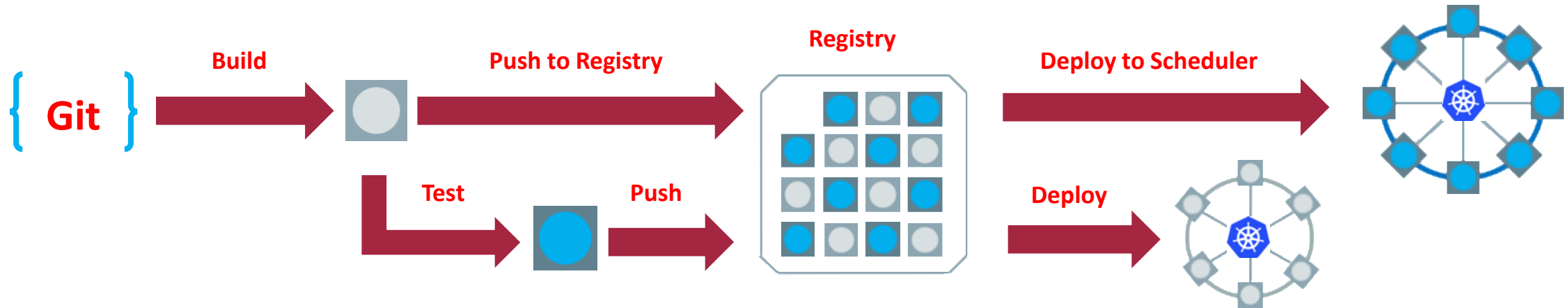
Logging

Security

Monitoring

Cloud

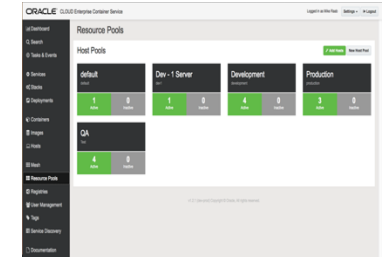
Oracle acquires Wercker CI/CD for Docker Containers – oracle.com/wercker



OSS CLI



**Pipeline/Build Console
Workflow Automation**



**Oracle, On Premise,
Amazon, Azure, Google ...**

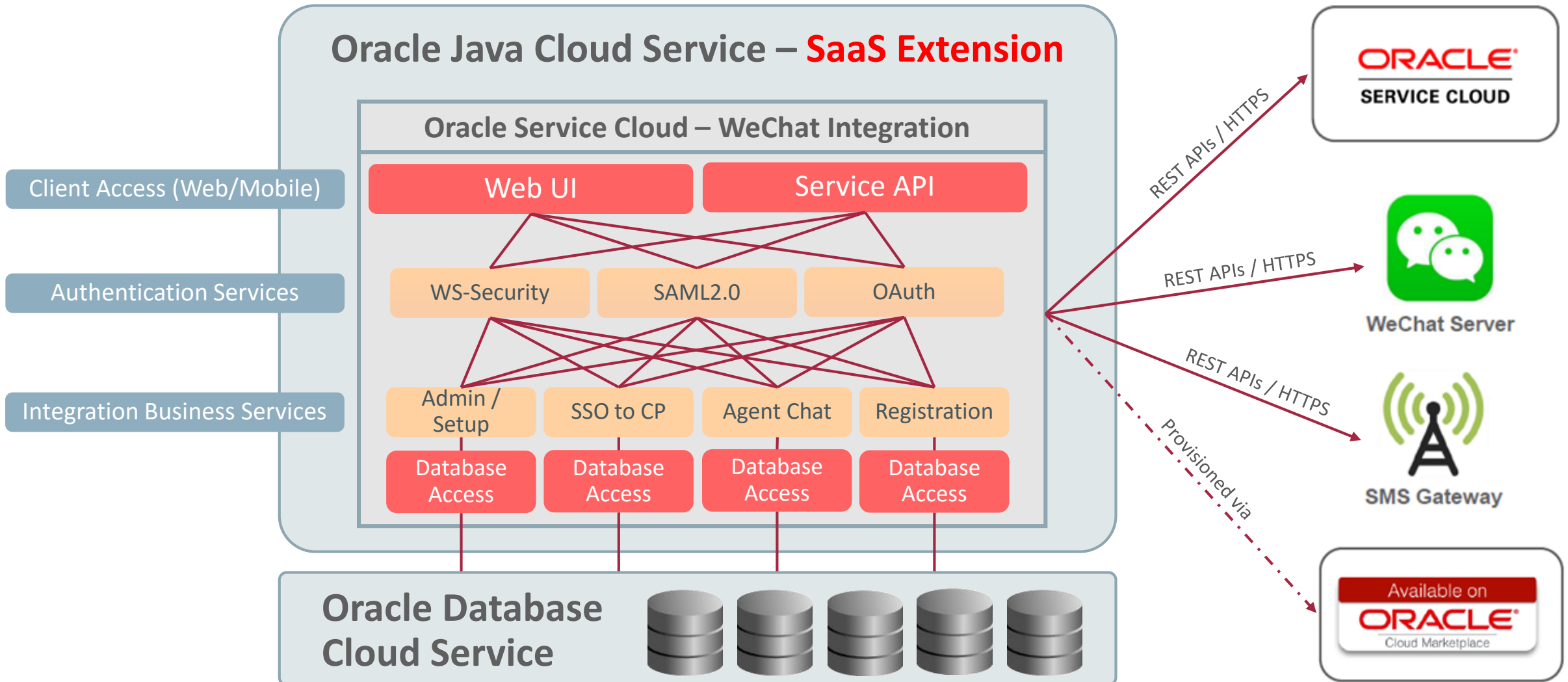


Extend & Enhance SaaS Applications

SaaS Application Enhancement Demonstration



Building this integration with WeChat



What is SaaS Extension?

Configure Applications

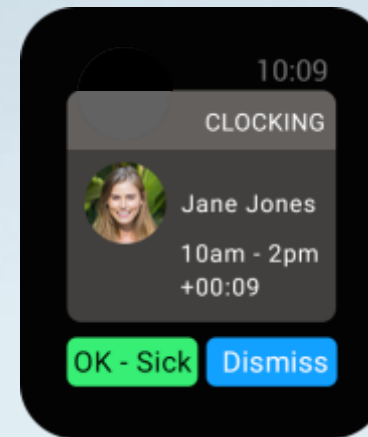


User Experience

Data Fields

Business Processes

Extend SaaS and Build Apps on Cloud Platform



My Time



Mobile Chat



Issue Tracker



Team Worklist



Resource Request

Innovate your business ... without disrupting upgrades



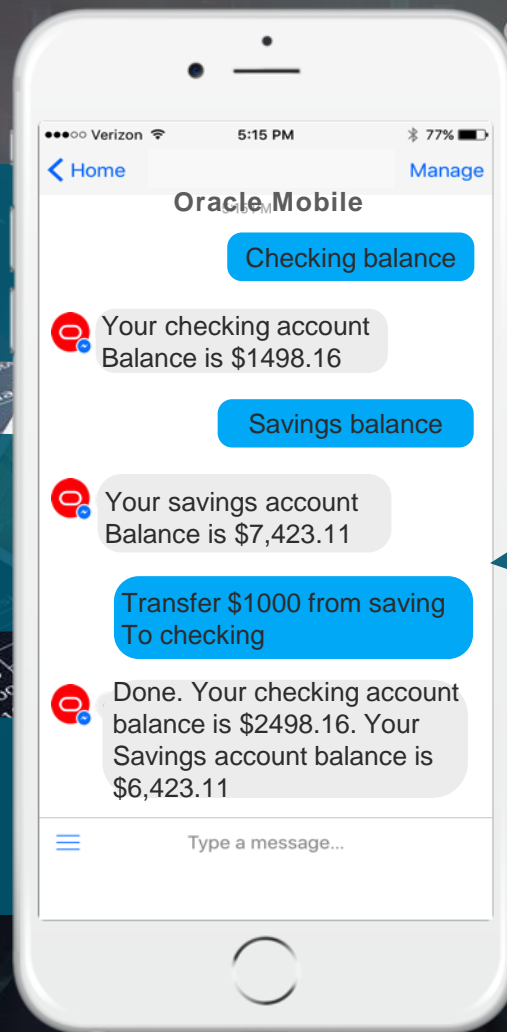
Next-Gen Engagement: Rise of the Bots

“There’s an app for that”^{fatigue}

People typically engage with 25 apps per month

Top 3 apps represents 80% of use over time

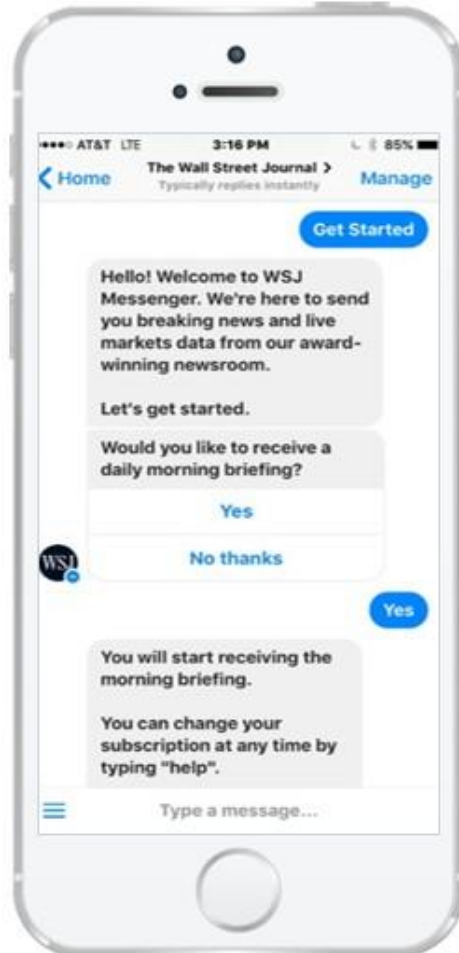
After 30 days, only 3% of apps retain their new users



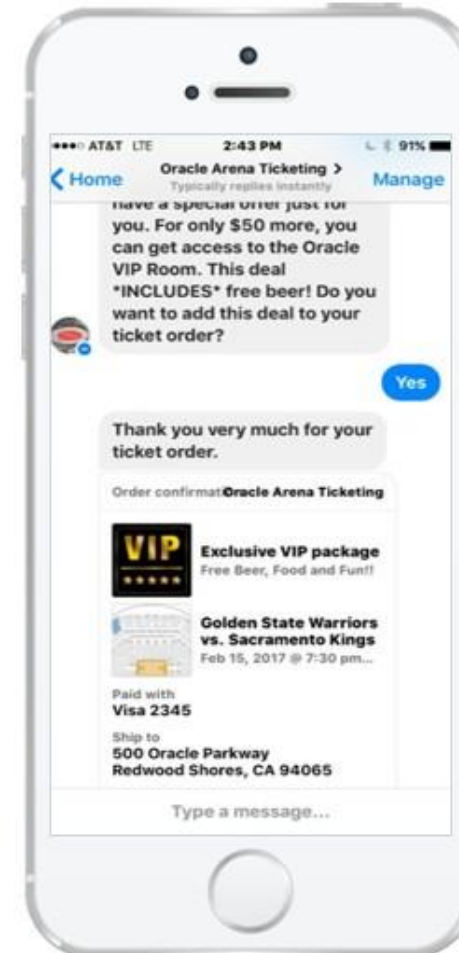
Messenger is a top 3 app that offers a familiar environment

Two Broad Categories of Bots

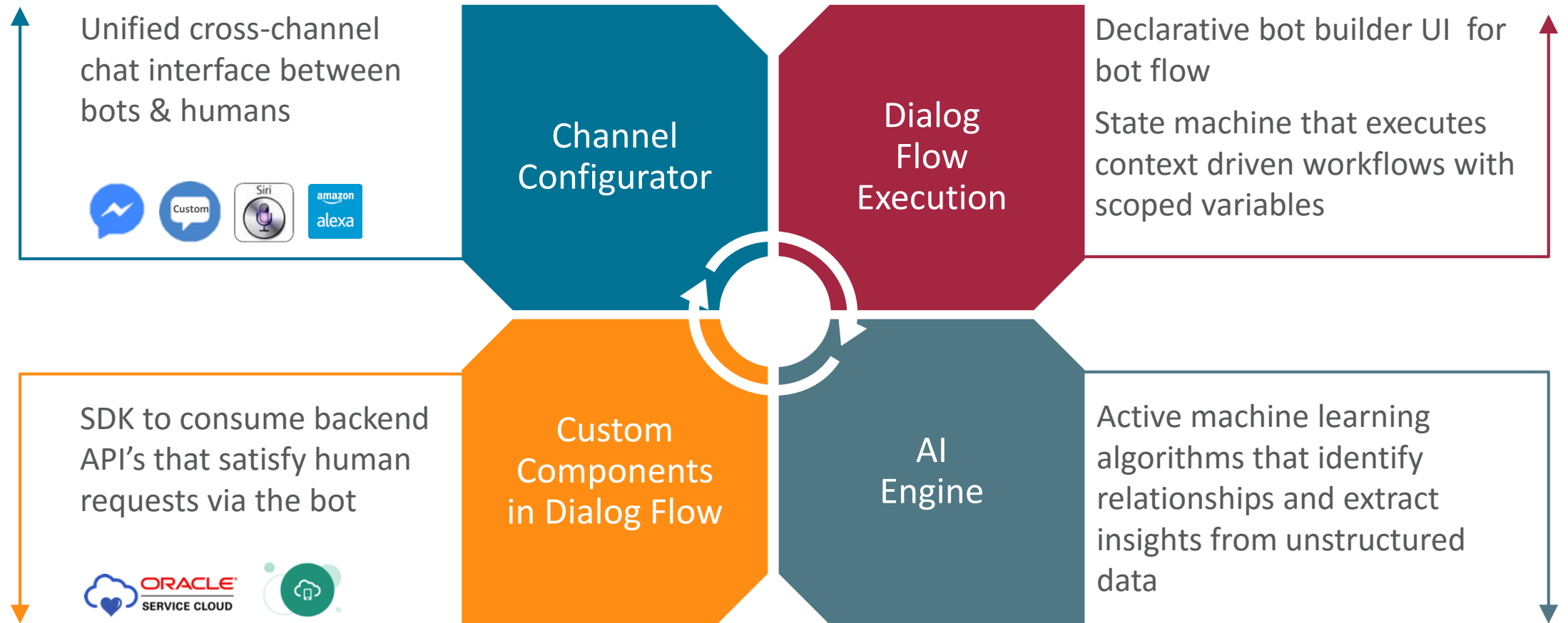
Task-Oriented



Data-Driven & Predictive



Oracle Intelligent Bots: Key Components



Getting Fans to the Game in Style

Connect
with fans.

Make it as easy
as possible for
them to get to
the game.



Once at the
game, engage
with fans to
enhance their
experience.

API-First, Mobile Always Development

Jane
HUGE Dubs fan



Design &
Deliver API



Akihiro
API Developer



Invoke
& Monitor
Microservices



Build
& Deploy
Chatbots



Philip
Microservices & Chatbot
Developer



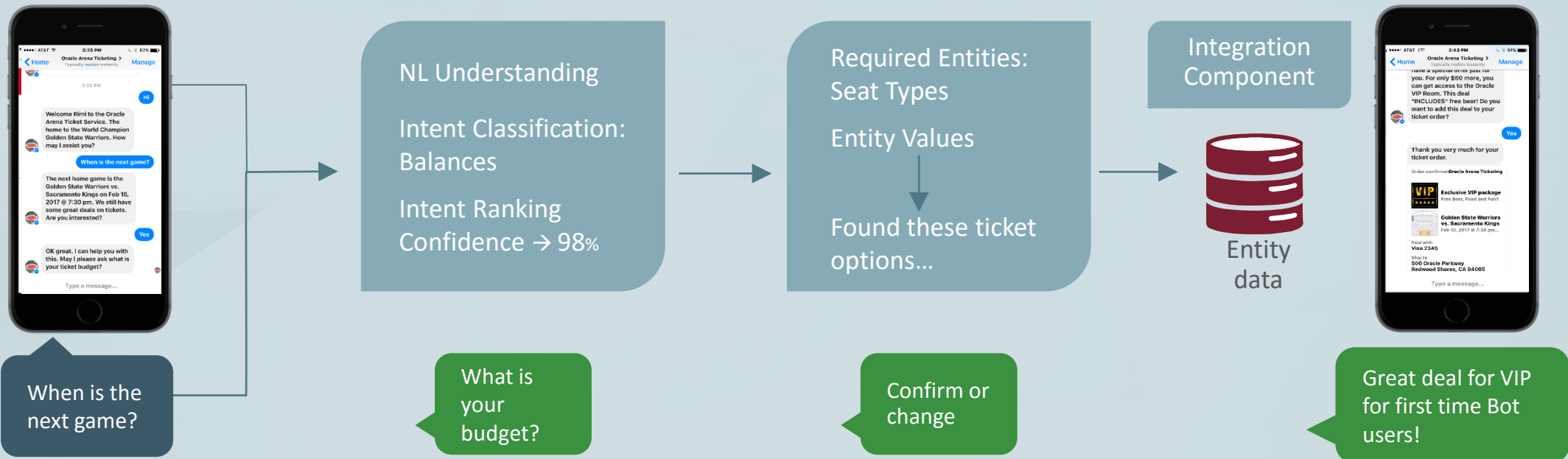
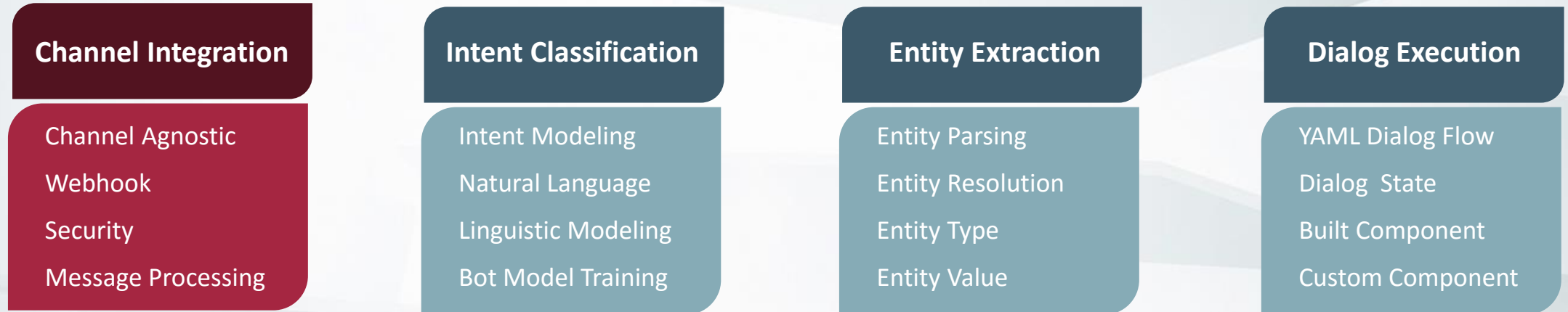
Jane
HAPPY Dubs fan



Fan Experience Bot Demonstration



Oracle Intelligent Bots: AI Flow



Bot Builder Demonstration



Oracle Cloud Platform: Application Development Services

Blending Traditional, Cloud-Native and Low Code with End-to-End PaaS

Oracle Platform for Cloud Application Development

BACK-END SERVICES



Application Container



Java



Functions



Mobile/Chatbots

FRONT-END TOOLING



SDKs
(3rd Party, JET)



Mobile Accelerator



Application Express



App Builder

COMMON SERVICES



Continuous Delivery
(Developer Cloud)



Container Cloud
(Docker, Orchestration)



APM/Log Analytics



Event Hub
(Kafka) Cloud



Messaging Cloud



API Management



Identity

DATA SERVICES



Database



MySQL



NoSQL



Big Data

INTEGRATION SERVICES



Integration



SOA



Internet of Things

Compute (VM, Bare Metal)

Network

Storage

Infrastructure as a Service

Oracle Cloud: 500+ Certified Open Source Offerings



Oracle Cloud Platform Adoption

11,000+
PaaS Customers, 210% growth

2,900+
Apps on cloud Marketplace from 900+ partners

12 Services in 2015 **50+** Services today **9** Cloud Solutions

142
Countries where customers are using Oracle Cloud Platform



Thank You

ORACLE®

Live for
the Code



Oracle Code

点燃你的代码激情



ORACLE

Developers

Events

Solutions

GET FREE CLOUD CREDITS >



Step Up to Modern Cloud Development



PROFILE

An Engineer's View: How To Build Cloud Right >



HOW-TO

Get Started With Oracle Java Cloud Service >



INSIGHT

Cloud-Native Development: Culture and Tech Change Required >



Java



JavaScript



Databases



Development Tools



DevOps



Open Source



Cloud



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AM

Agenda 大会日程

14:10	API设计, 开发, 治理与交付 14:10-14:55	Java 8 中的炫酷特性和 Java 9 中的新特性 14:10-14:55	用 Docker 和软件集构建开发环境 14:10-14:55
动手实验室: DevOps 与云原生微服务 14:10-17:10			
15:05	那么, 他们这些天在谈论什么? — 用图表分析主题 15:05-15:50	区块链技术如何帮助公益项目更好的解决社会问题 15:05-15:50	
15:50	茶歇 15:50-16:20		
16:20	Oracle JET移动/Web开发入门 16:20-17:05	Docker上的Oracle数据库 16:20-17:05	
17:15	面向云中微服务开发的快速CI/CD 17:15-18:00	在云中实现敏捷的团队开发 - 经验总结 17:15-18:00	API管理与微服务的天作之合 17:15-18:00
18:00	Cocktail 鸡尾酒会 18:00-19:00		

甲骨文公司保留对日程更改的权利。

07:30	签到 07:00-17:30		
09:00	世上本没微服务 09:00-09:55		
09:55	甲骨文主题演讲 09:55-10:45		
10:45	编程沙龙开放 10:45-19:00		
11:30	用 MySQL 5.7 开发 NoSQL 应用 11:30-12:15	我已经是“本地部署”数据库专家了。怎样才能成为云专家? 11:30-12:15	更了不起的Node.js 11:30-12:15
上机操作: “二十一点纸牌游戏”云应用 11:30-13:30			
12:25	Python与Oracle 数据库: 提示、技巧与最佳新特性 12:25-13:10	任何人都可搭建的web-webapp 12:25-13:10	为移动应用和聊天机器人创建和形成有效的 API 和微服务 12:25-13:10
13:10	联谊午餐 13:10-14:10		

Live for the Code

PM

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- New York City
- San Francisco
- Toronto
- Washington, D.C.

Europe & Middle East

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- Brussels
- London
- Moscow
- Prague
- Tel Aviv

Asia Pacific

- Bangalore
- **Beijing**
- New Delhi
- Seoul
- Sydney
- Tokyo

Latin America

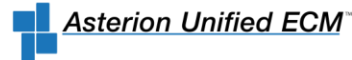
- Mexico City
- São Paulo

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