

ORACLE®

A Full Cloud Development Environment



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September, 2017

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Agenda

- Introduction to Oracle Cloud
- Application Development Platform Overview
- Java Cloud Service
- Application Container Cloud Service
- Developer Cloud Service
- Demo

Oracle Cloud



An integrated platform
that provides
unprecedented ability to
take **meaningful steps**
toward genuine business
transformation



Complete

Open

Secure

Choice

ORACLE®

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Oracle PaaS



Data
Management



Application
Development



Enterprise
Integration



Data
Integration



Business
Analytics



Security



Content



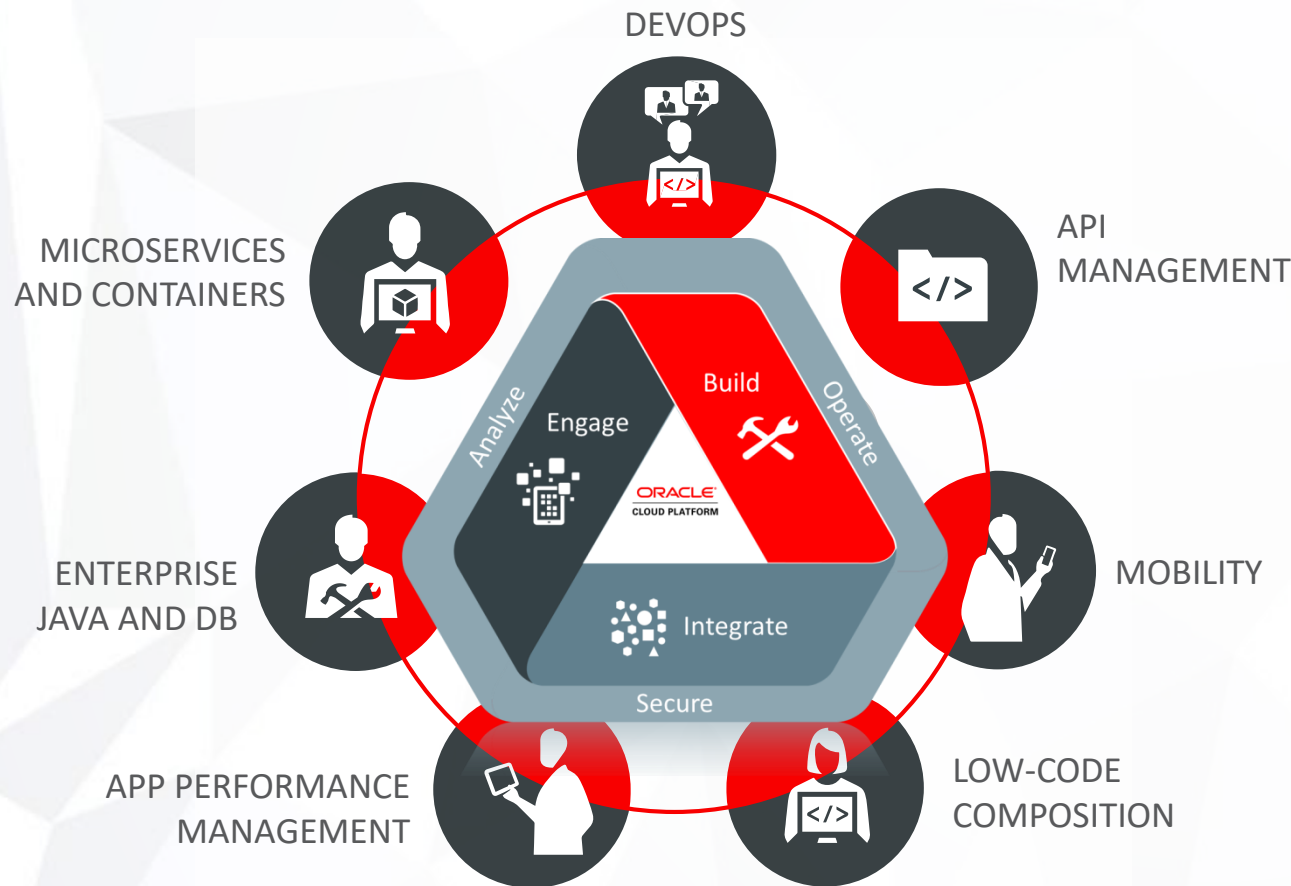
Big Data



Management

- Broadest offering across all major categories
- Same capabilities in cloud as on premises
- Automation through cloud tooling; focus on outcomes vs. administration

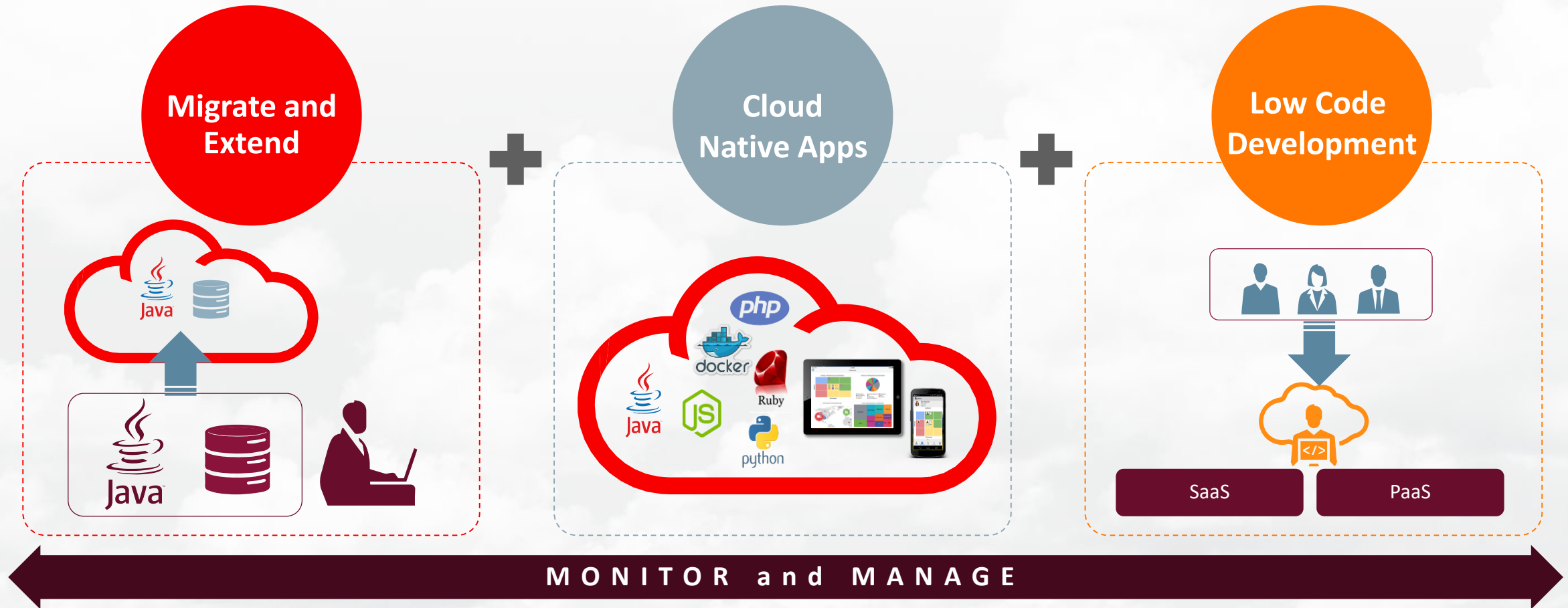
Oracle Cloud Platform: For Application Development



- **Comprehensive AppDev**
 - Cloud native, migrate, low code
- **Automated DevOps**
 - For continuous integration and delivery
- **API First**
 - Mobility and multi-channel delivery
- **Single Pane of Glass**
 - For monitoring and management

Why is Oracle Different and Better at AppDev?

One Solution that Solves Migrate and Extend, Cloud Native and Low Code



Two Key Development Approaches

Modernize Existing Workloads



Java Cloud Service

Offloading operations/IT
Faster dev/test
Access to PaaS services
Pre-integration

Build Modern, Cloud-Native Apps



Application Container Cloud Service

More capabilities, faster
Speed to market
Increased rate of innovation
Easier experimentation

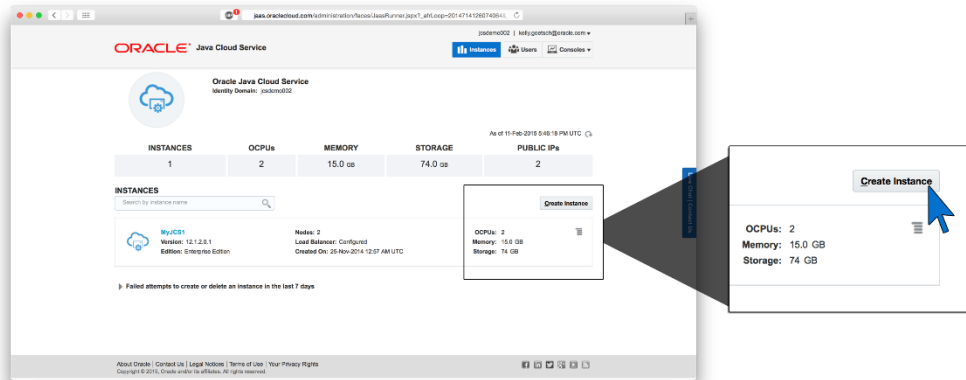
Oracle Java Cloud Service



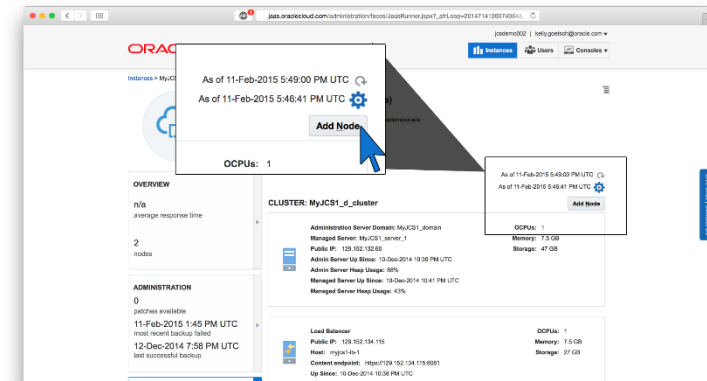
A modern, cloud-optimized, fully-automated, DevOps-ready platform for Java EE apps in the cloud

Complete Lifecycle Automation with Java Cloud Service

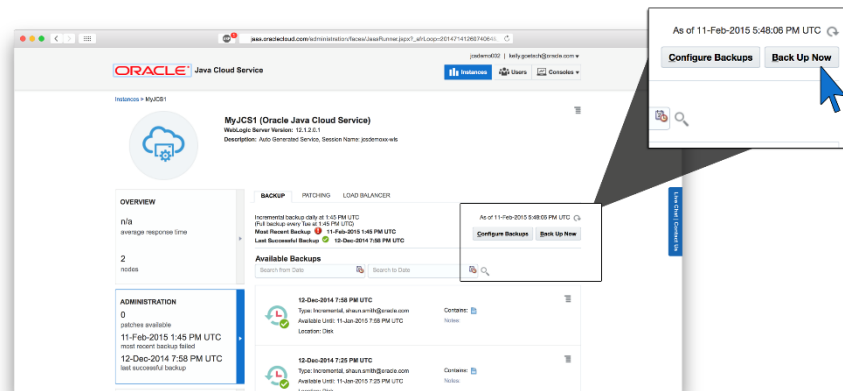
Instant Provisioning



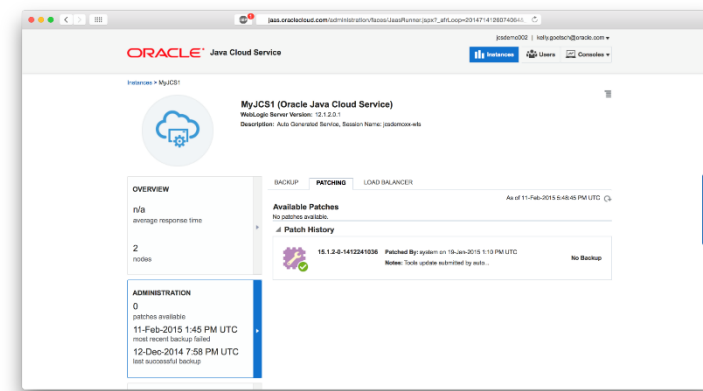
Automated Elasticity - Scale In/Out/Up/Down



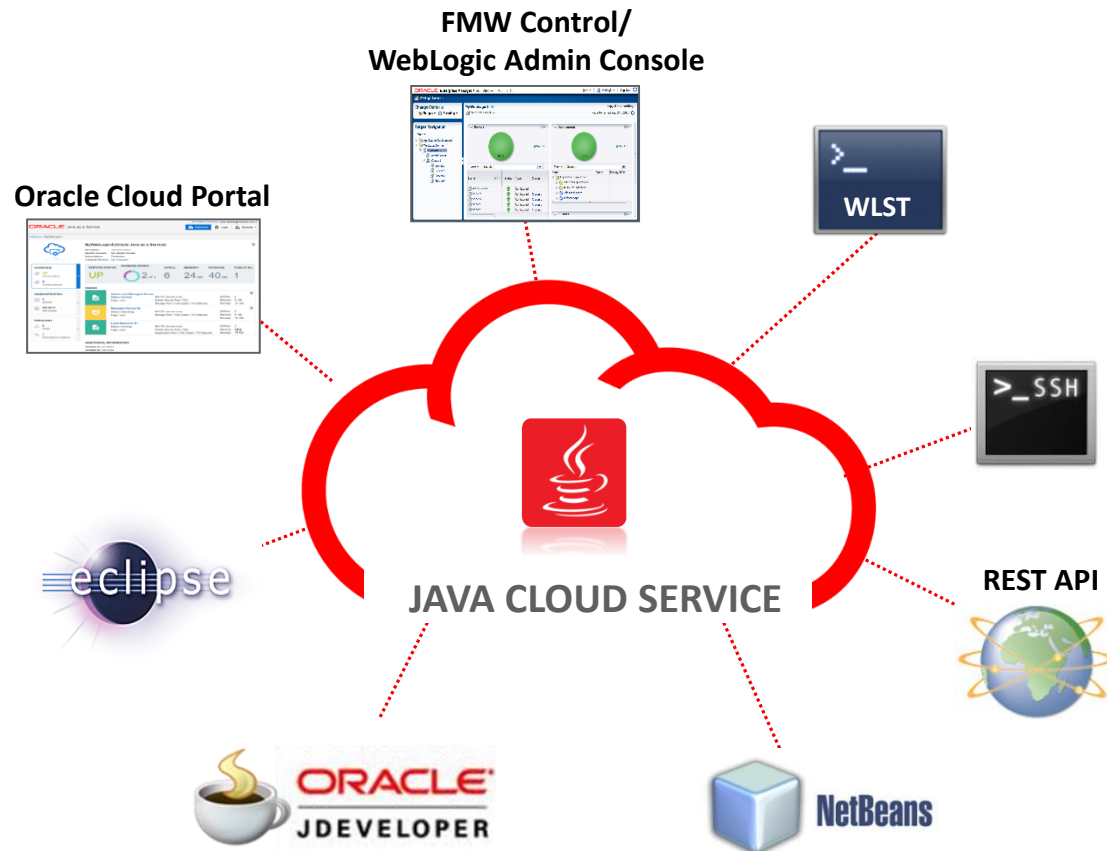
Automated Backup/Recovery/Standby



Integrated, Automated Patching



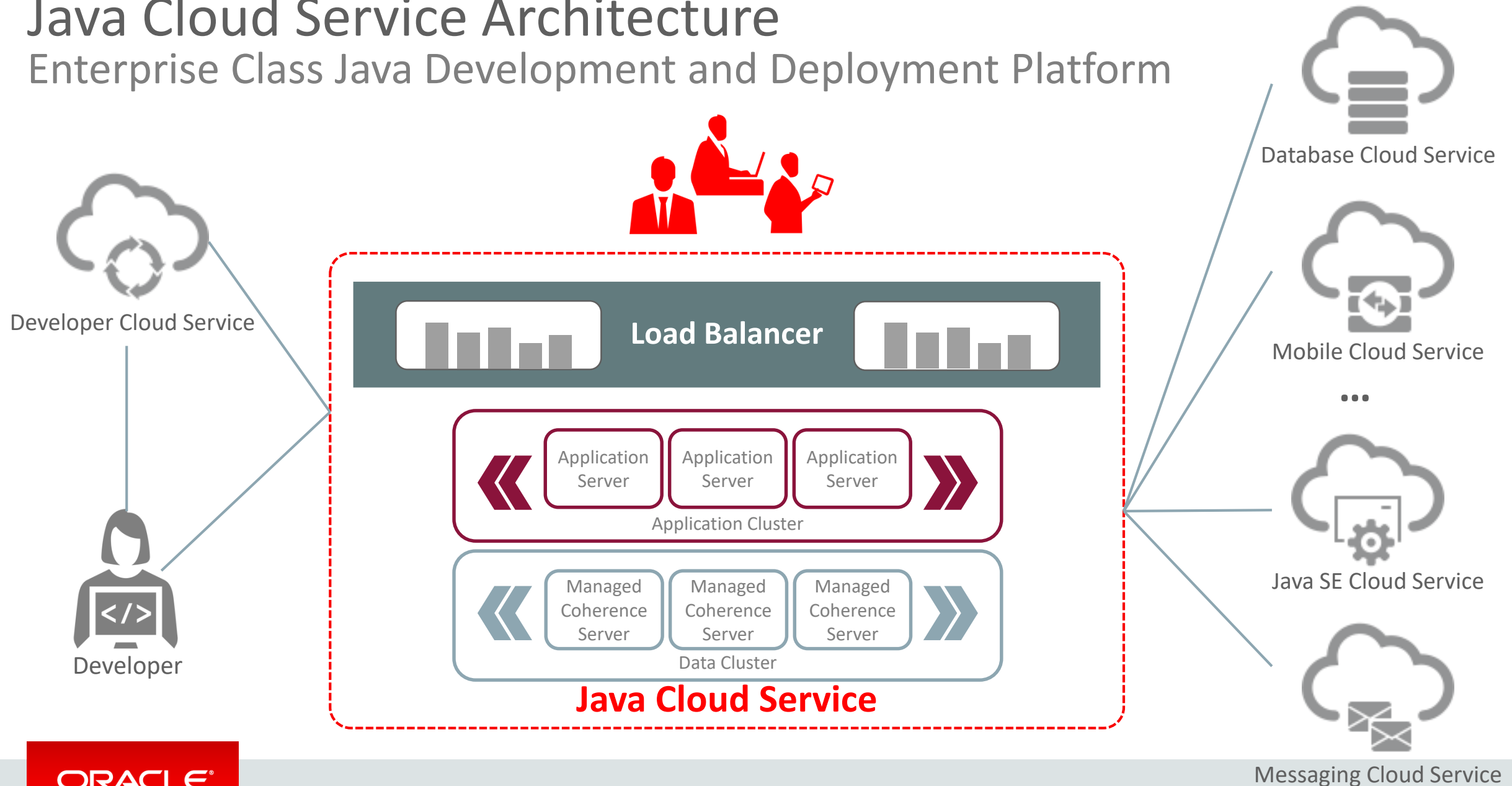
Standard High Productivity Tools for Development Teams



- New Cloud Portal
- Familiar, but improved WebLogic Admin Console
- Fusion Middleware Control
- Public REST APIs
- Command Line Interface
- SSH to VM
- Standard IDEs

Java Cloud Service Architecture

Enterprise Class Java Development and Deployment Platform



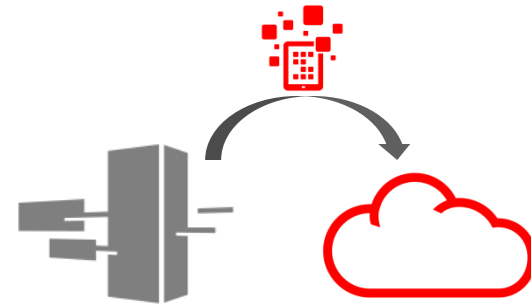
Java Cloud Service Main Use Cases



Dev/Test in the Cloud



New App Development



Migrate Apps to Cloud

Two Key Development Approaches

Modernize Existing Workloads



Java Cloud Service

Offloading operations/IT
Faster dev/test
Access to PaaS services
Pre-integration

Build Modern, Cloud-Native Apps



Application Container Cloud Service

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Easier experimentation

Oracle Application Container Cloud



An open highly available
Docker container-based
elastic polyglot cloud platform

Open Platform

USE ANY OPEN SOURCE OR COMMERCIAL JAVA OR NODE FRAMEWORKS



Apache



Jersey



Oracle Application Container Cloud



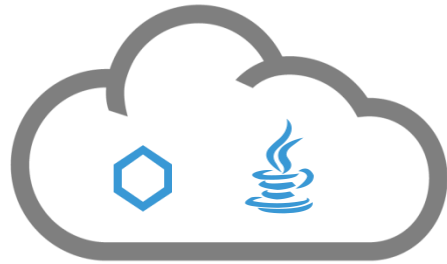
An open, highly available Docker-container-based elastic polyglot cloud platform

Application Container Cloud Features

- Applications run on Oracle Linux in Docker containers
 - Stateless Applications
 - Ephemeral disk
 - Permanent storage through database or storage service
- User selectable amount of RAM per application—usage charged in GB-hours
- No Backup Required—applications are stateless
- No Patching Required—uptake new releases of Java by upgrading
- Automatic load balancing
- Simple archive deployment from on-premise or from Developer Cloud Service

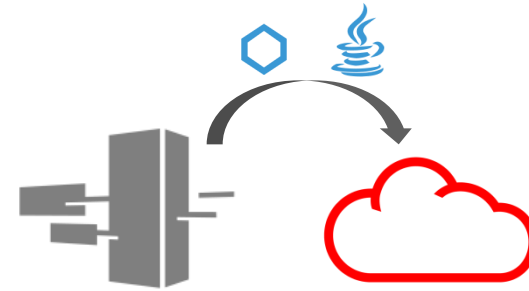


Java SE & Node Cloud Services Use Cases



New Lightweight App Development

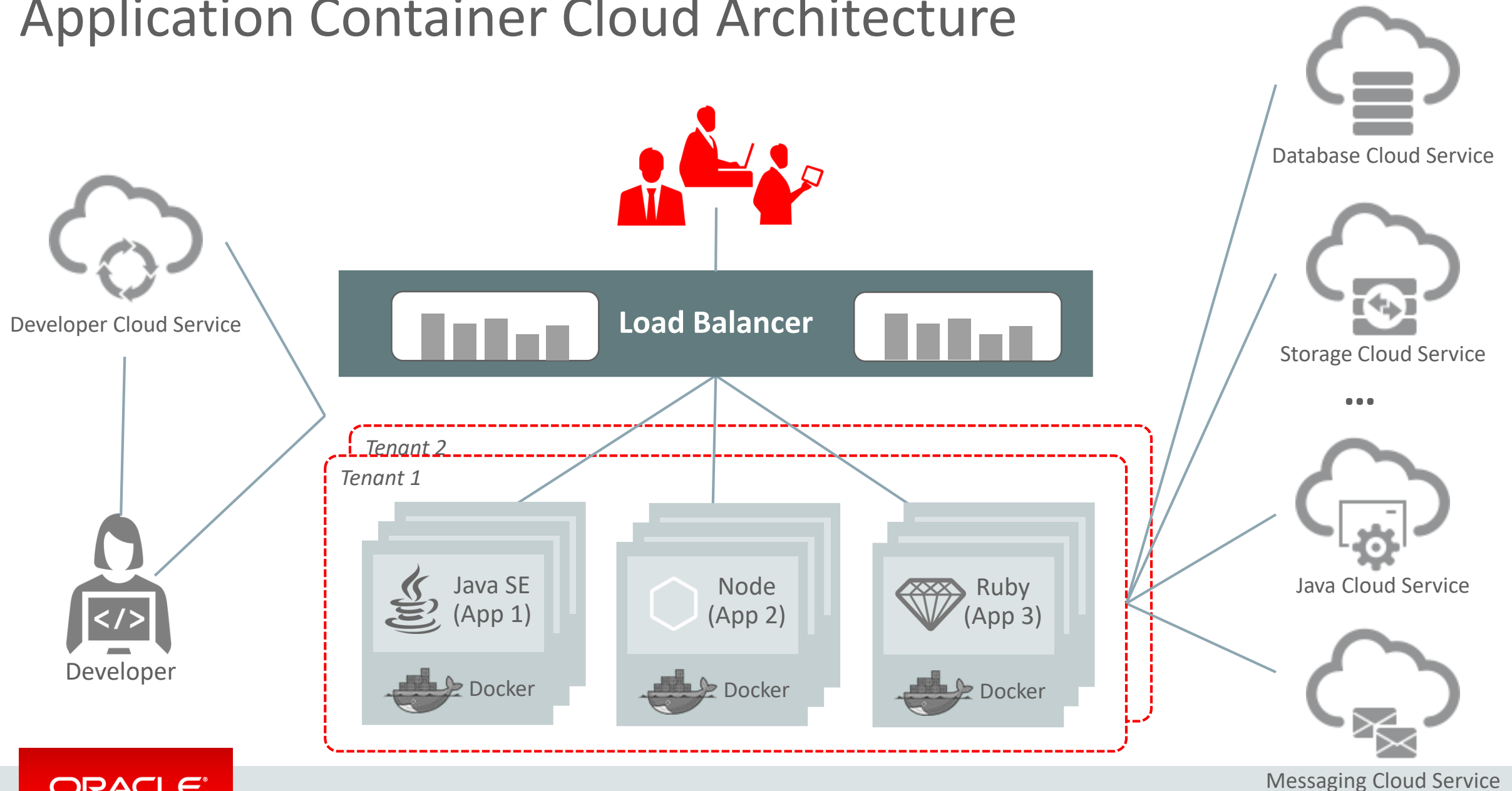
- Born-in-the-cloud apps
- Preconfigured for PaaS
- Broad technology support
- Light-weight, microservices foundation



Migrate Existing Apps to Cloud

- Easy “rehosting” of existing Java SE/Node apps to cloud
- Latest Java and Node updates
- Cloud management
- Connect to PaaS services

Application Container Cloud Architecture



The Oracle Application Container Cloud Advantage



- Reliable scalable platform for non-Java EE workloads
- Leverage unique Oracle Java SE features
 - Advanced diagnostics (Flight Recorder), immediate access to platform upgrades, security, platform optimizations
- Extensible platform with initial support for Java SE & Node
- Full access to OPC services including Database, Messaging, Storage, ...
- Tight integration with Developer Cloud Service for continuous integration and deployment
- Super easy to use—streamlined and minimal UI & REST API
- Foundation for lightweight microservices programming infrastructure

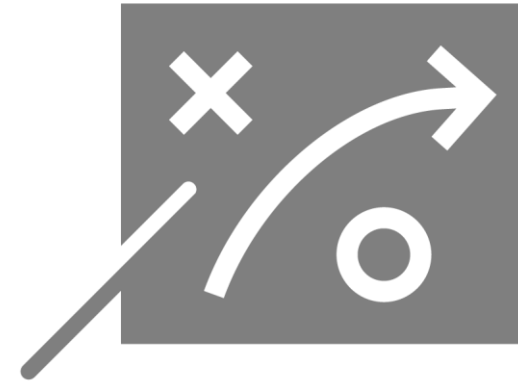
The Oracle Developer Cloud Service

Cloud-based development platform
that enables agile development
methodology and DevOps
automation



Agile Methodology Key Concepts

- Short delivery cycles
- Delivery of incremental solutions
- Focus on highest priority tasks
- Adapt constantly



Platform for Agile Development

Development Infrastructure

Version Management

Automated Build/Test

Continuous Integration

Continuous Delivery

Team Infrastructure

Issue & Task Tracking

Team/Sprint Management

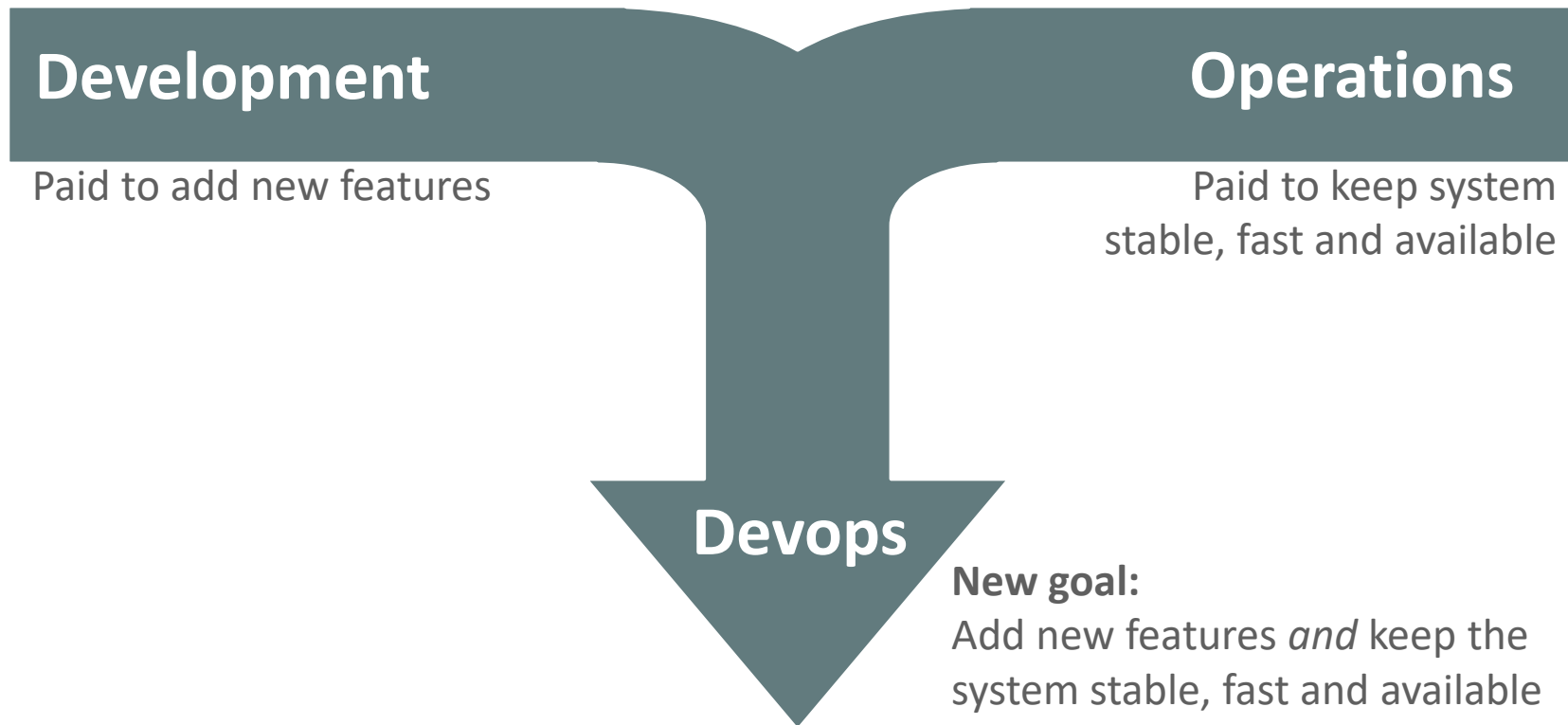
Code Review

Documentation / Wiki

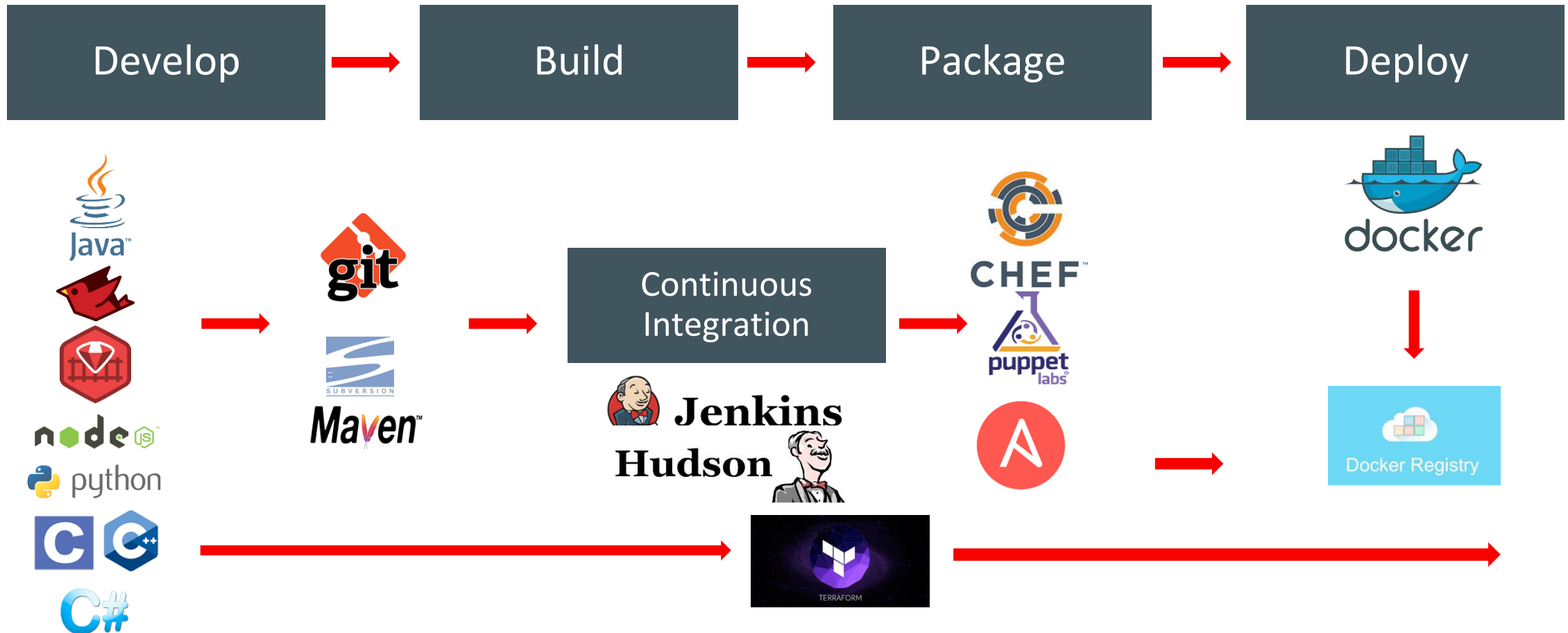
Team activity channel

DevOps Principles

Cultural movement enabled by technology



AppDev Lifecycle Completely Automated with Cloud Platform



Developer Cloud Service – Easy Adoption/Integration

Pre-integrated development technologies in the cloud

- Standards Based
 - Hosted Git, GitHub, Maven, Hudson, Ant, etc.
- Built-in IDE Integration
 - Eclipse, NetBeans, JDeveloper
- Choice of Deployment Target
 - Oracle Cloud or on-premise
- Built in Collaboration
 - Wikis, Issue Tracking



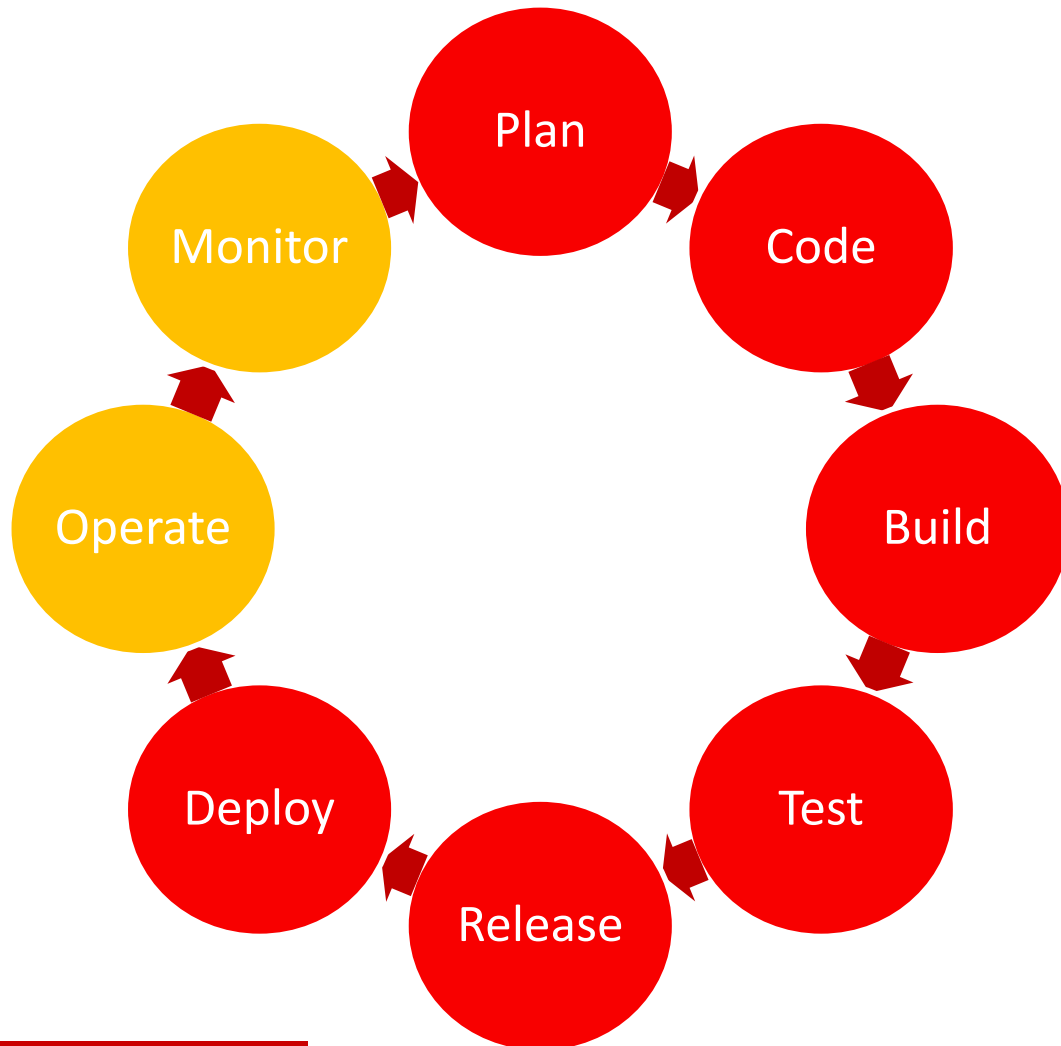
maven



JUnit



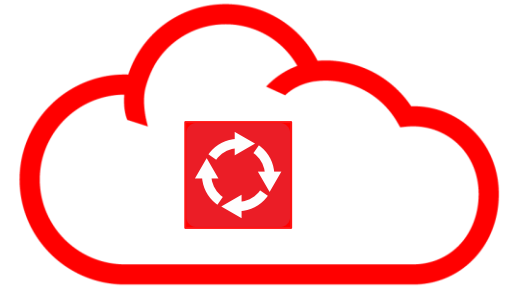
Oracle Developer Cloud Service and The DevOps Cycle



- Plan
 - Task tracking, Agile boards, wiki
- Code
 - Git– branch/merge
 - IDE integration, code review, snippets
- Build
 - Hudson CI + Build Tools & Utilities
- Test
 - JUnit & Selenium, Findbugs, deploy to QA
- Release & Deploy
 - Deploy Plans, Provisioning and configuring

Speaking of Dev Environments... Developer Cloud Service

- Complete, Integrated Development Platform - as a Service
- Application Lifecycle Management
- Team Management
- Entitlement with Java SE and Node Cloud Services



**Source Control
Management**



Issue Tracking



**Hudson Continuous
Integration**



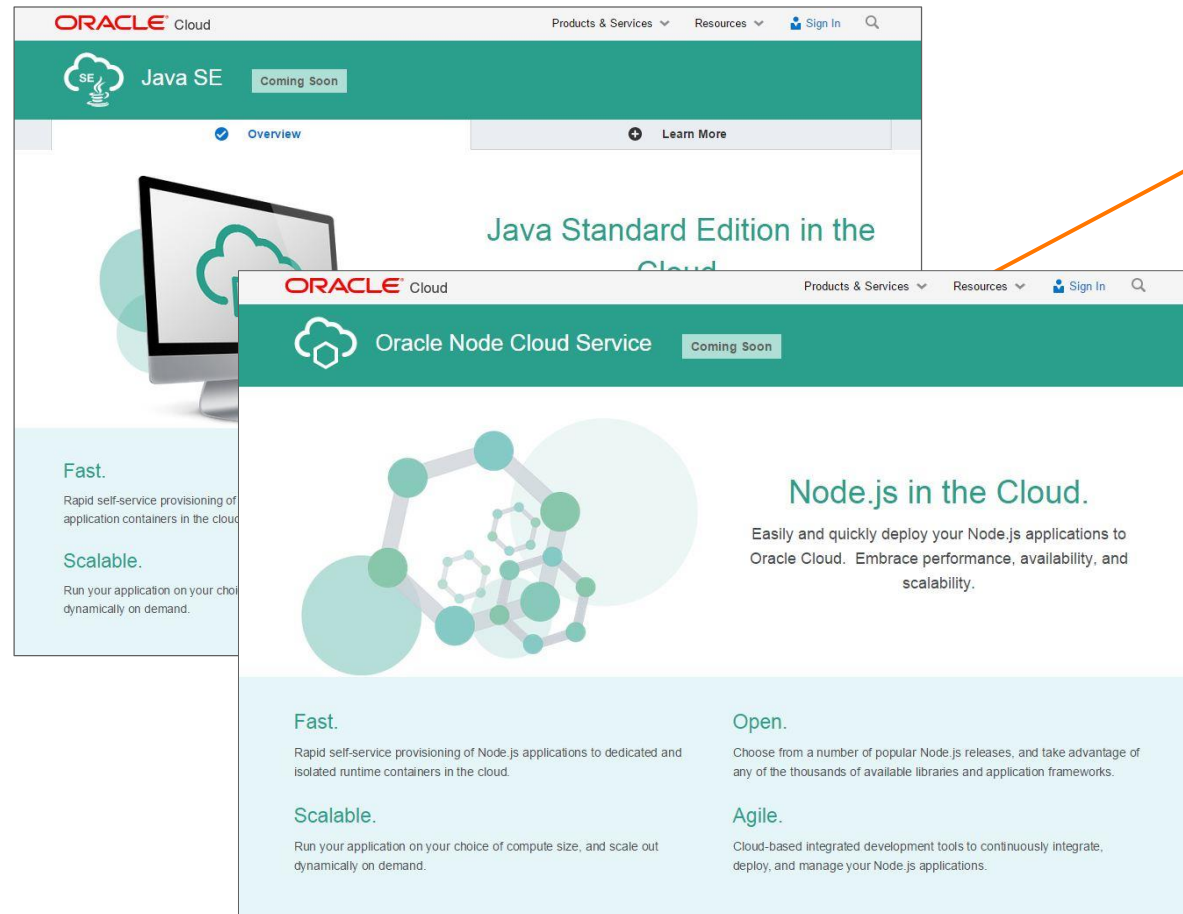
Wiki Collaboration

Why Container Native with Oracle?

- Open, Integrated Platform
 - Docker, Kubernetes, Polyglot, Cloud Native Computing Foundation
- Cloud Neutral
 - Expressly non-proprietary – differentiate on operations and quality of service
- Community Driven
 - Active Engineering Participation in De Facto/De Jure Standards, Conferences
- Innovation in Open Source
 - Cloud Neutral Serverless Functions; Docker Helper Utilities; Kubernetes, Java
- Developer Experience
 - Seamless from local desktop to continuous integration and delivery in the cloud

Additional Resources

All available @ <http://cloud.oracle.com>



DATA
SHEETS

VIDEOS

PAPERS

RESOURCES

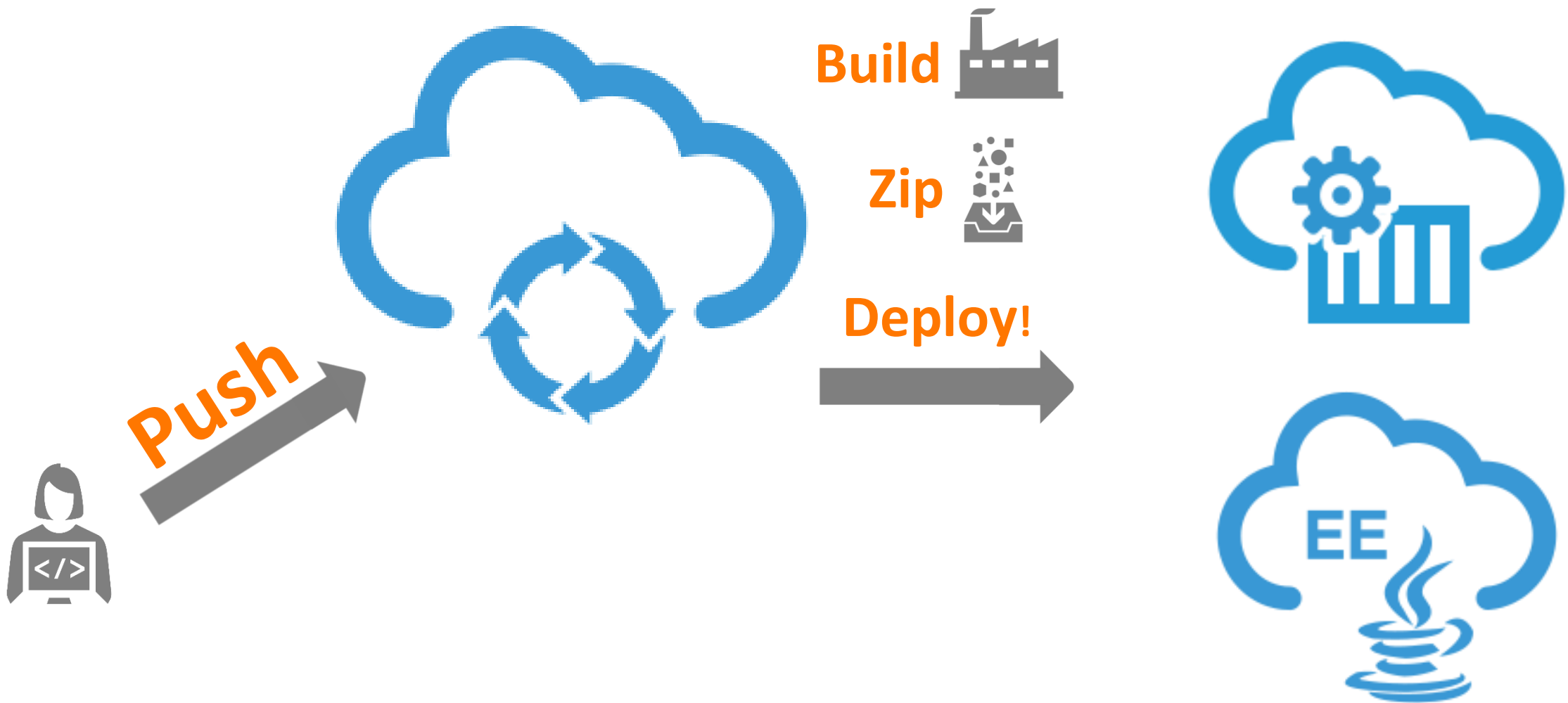
Your Application. Our Cloud. It works, just try it!

Let's have a Proof of Concept!

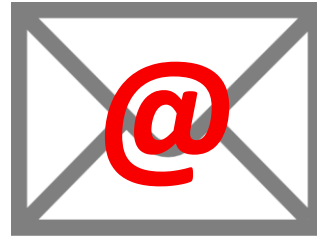
- Use the standard trial environment: cloud.oracle.com/en_US/tryit
- Request a customized environment to fit your needs
- Technical support from the Sales Consulting team to help you on-board.



DEMO



Thank you!



For more information, please don't hesitate to contact us:

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