ORACLE
CLOUD SOLUTIONS

Oracle Cloud Services
Java Cloud Service
Developer Cloud Service

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Agenda

- Oracle Cloud Overview and Strategy
- Java Cloud Service
- Developer Cloud Service
  - Demo

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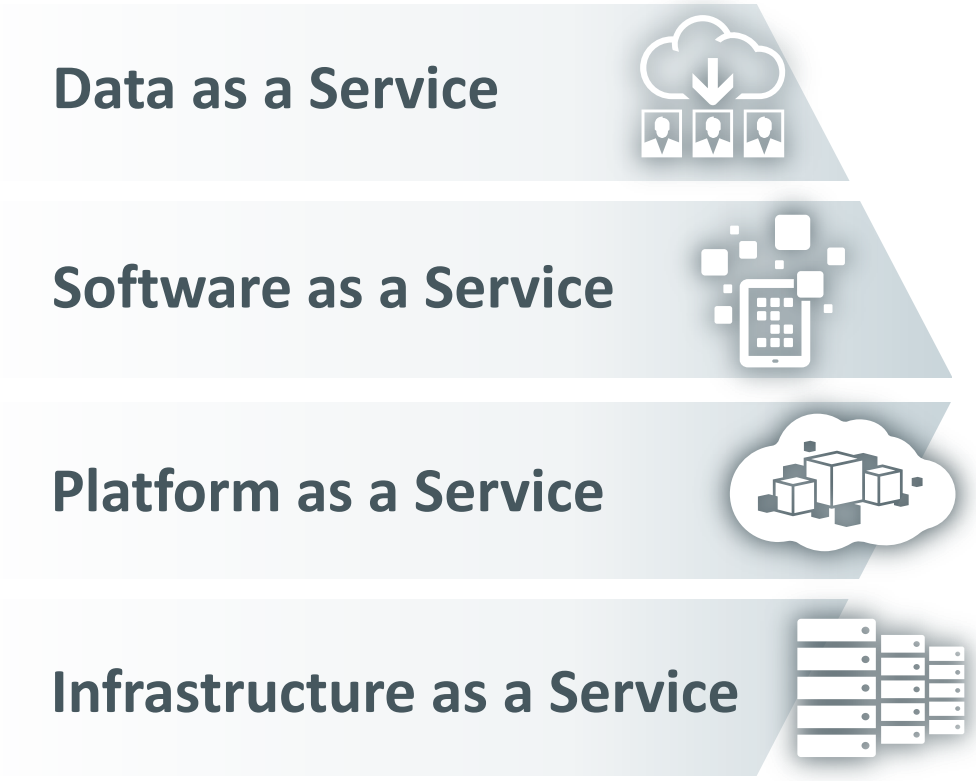
Oracle Cloud Platform: Strategy



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Oracle Service Models: IaaS, PaaS and SaaS

OPEX subscription with your choice of stack depth

SaaS *(Software as a Service)*
Fusion & Cloud Applications

PaaS *(Platform as a Service)*
Application development & deployment platform delivered as a service

IaaS *(Infrastructure as a Service)*
Server, storage and network hardware and associated software delivered as a service

Applications

Platform

Infrastructure

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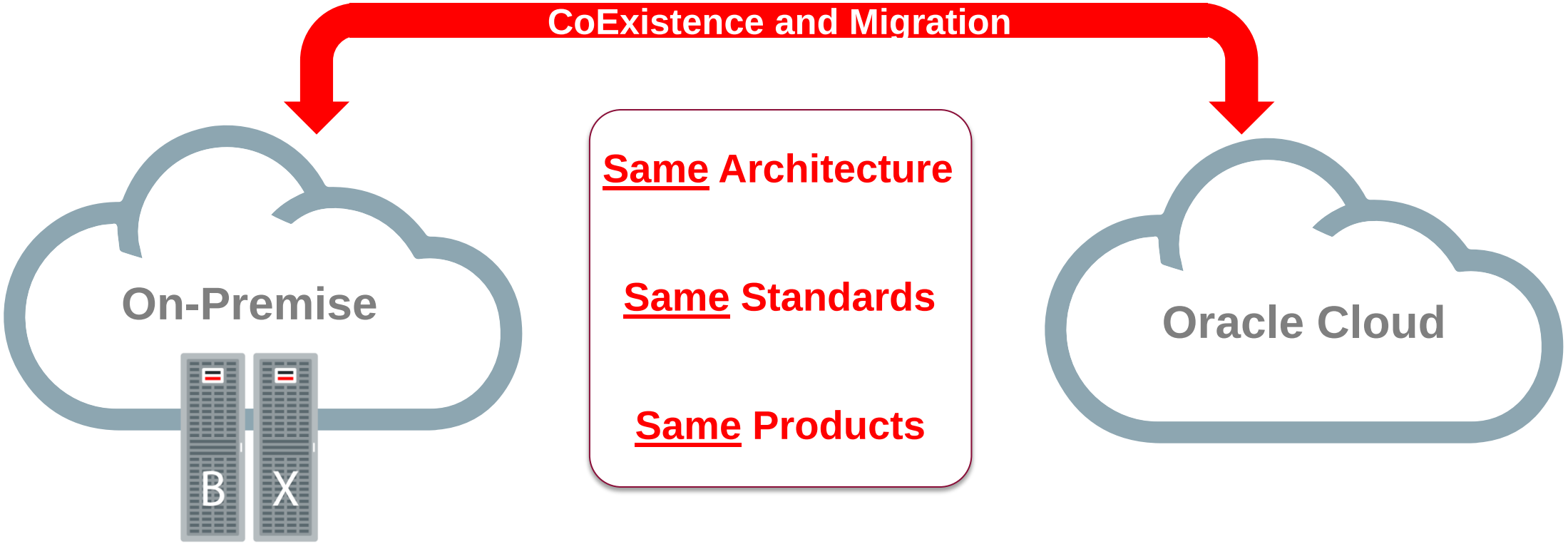
Oracle Cloud SaaS And PaaS Is Compatible

100% Upward Compatibility with On-Premise Enables Easy Coexistence and Migration



Transparently move workloads between On-premise and public cloud

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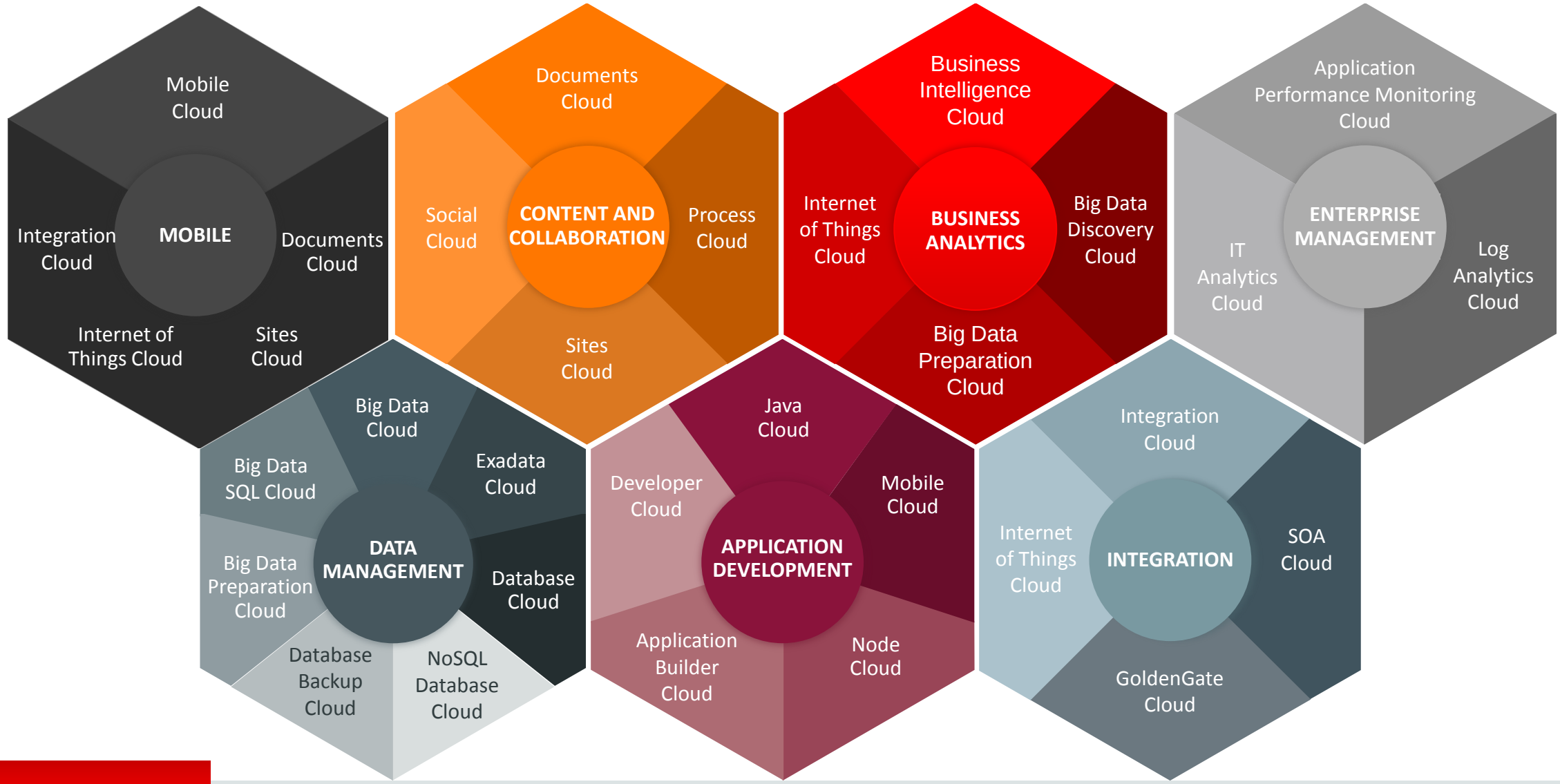
Oracle PaaS: Cloud Platform Services



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Oracle Cloud: Global Data Centers*

- 19 State of the Art ‘Tier IV Class’ Facilities
- Baseline 99.999% Availability of Power/Cooling
- 24X7 Active Monitoring and Support
- Carrier Neutral – Best in Class Peering

*Data center strategy subject to change

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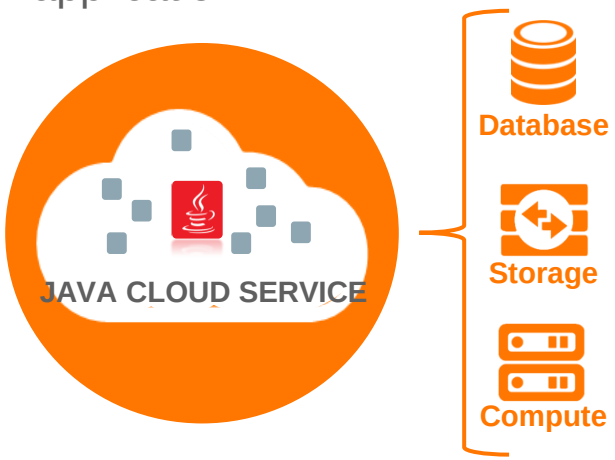
Bird’s-eye View of Java Cloud Service (Launched In FY15)

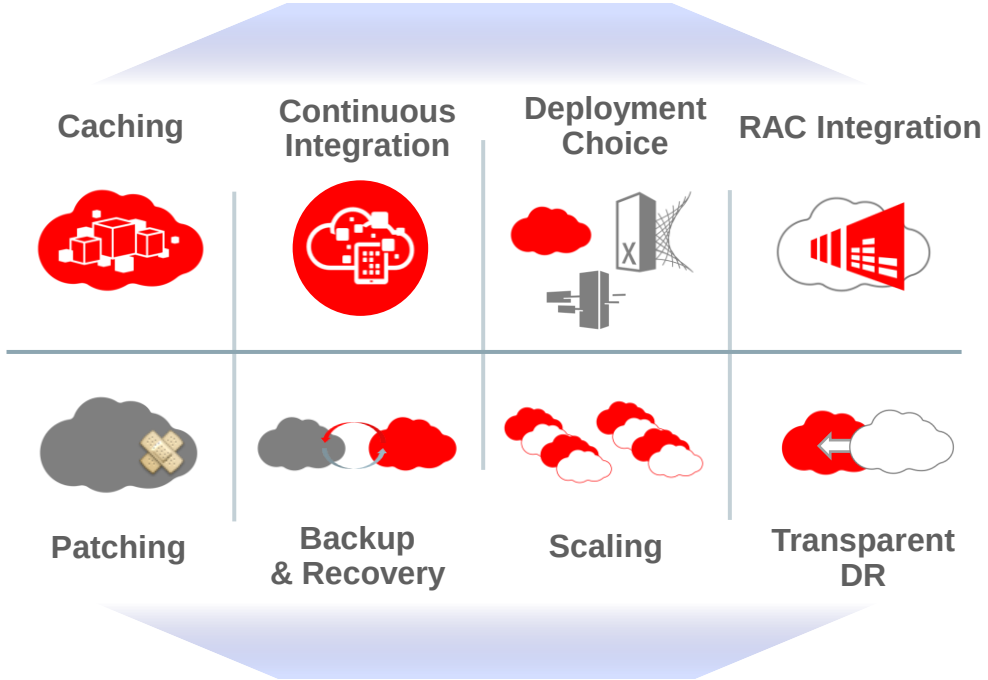
Your platform for running business applications in the cloud

What is JCS?

- Robust PaaS for Java, built on Oracle's IaaS solution
- Includes advanced cloud tooling that covers the complete lifecycle of your application



Product Features



Operational Advantages

Benefits

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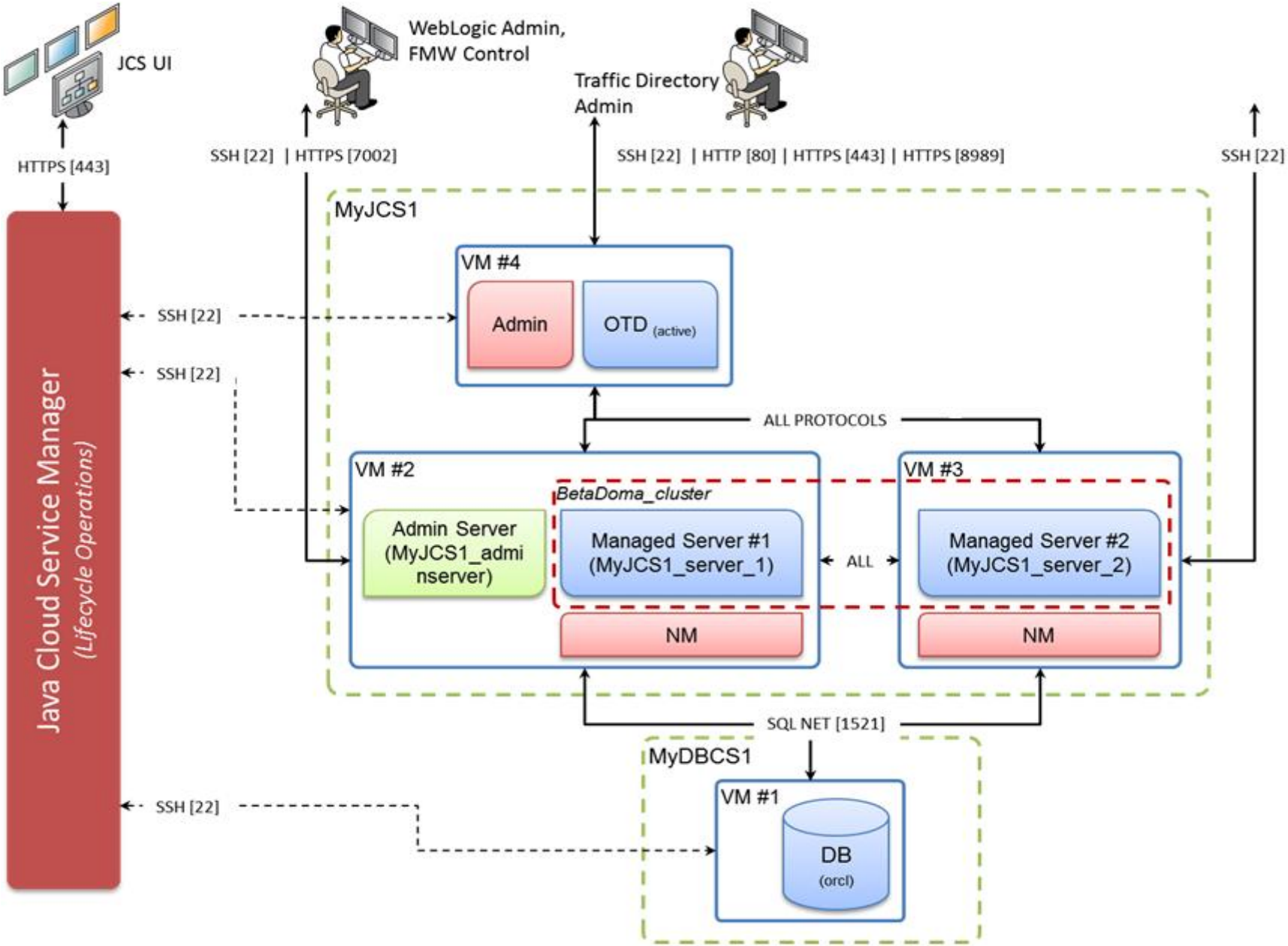
Provisioning

Topology



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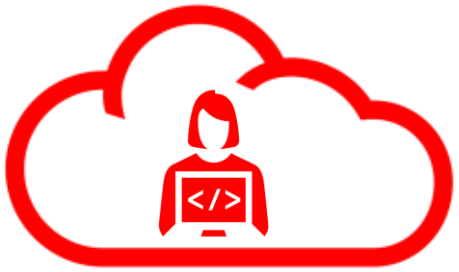
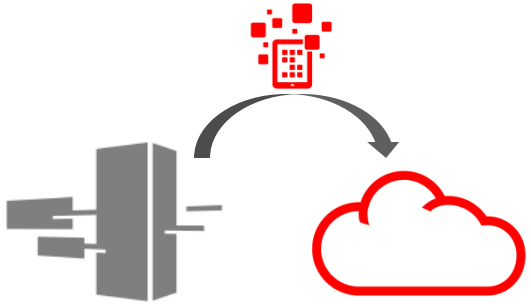
Java Cloud Service Main Use Cases



Dev/Test in the Cloud

New App Development



Migrate Apps to Cloud

Strategic Outsourcing Recapture

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Key Java Cloud Service Features

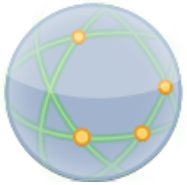
Develop & Deploy

Flexible Deployment

On-premise or in the cloud

Self-Service

Quick & Easy



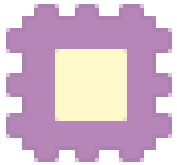
IDE Support

JDeveloper, Eclipse, NetBeans

API Access

Automate

Administer & Manage

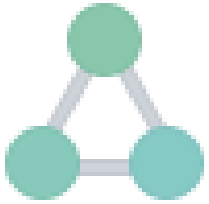


Patch

Automated patching and rollback

Backup

Never lose your data & apps



Scale

Capacity at your finger tips

Service Console

Common & integrated

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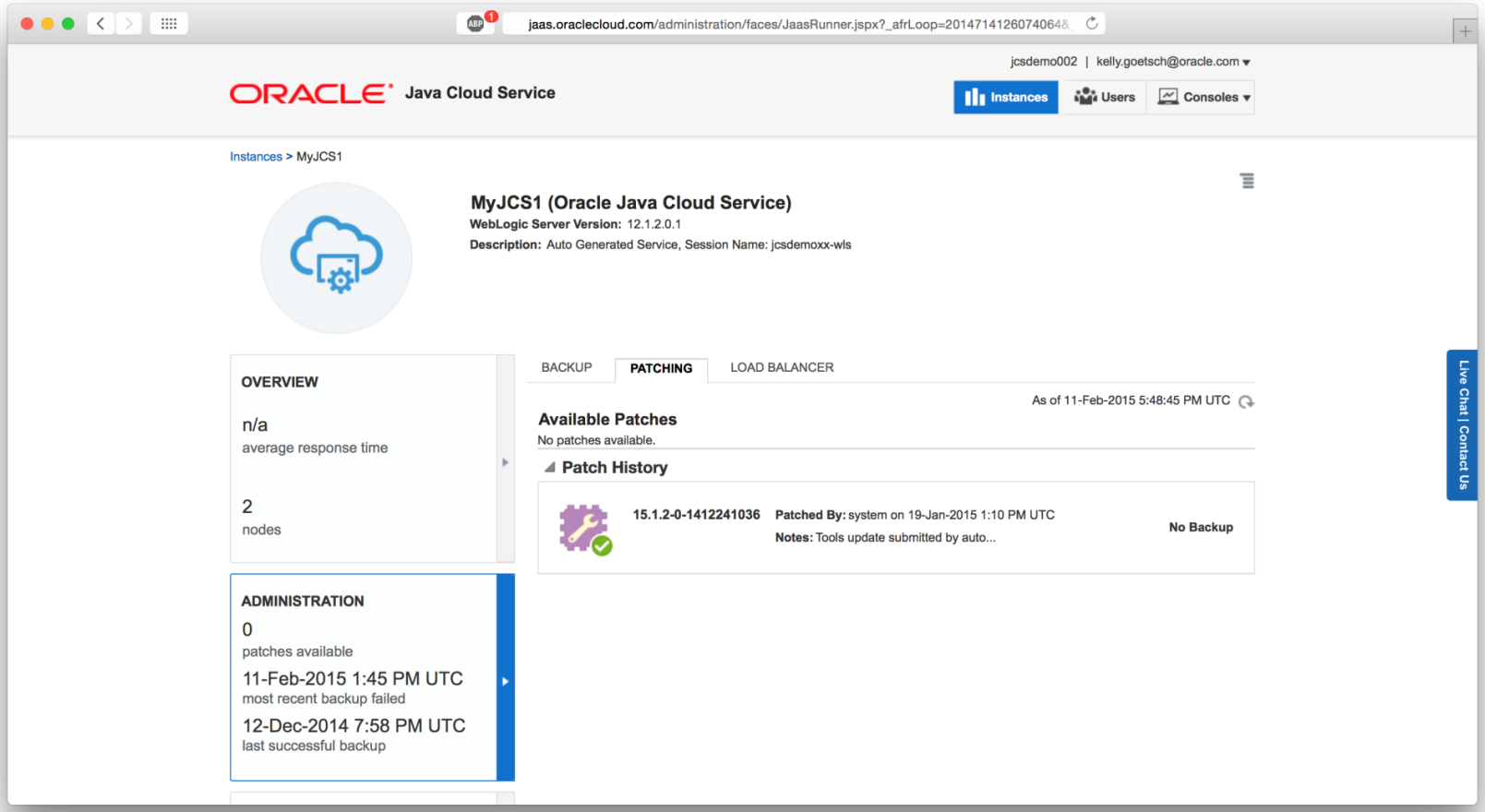
Java Cloud Service Feature: Patching



- Patching made simple – we handle the details
- You control patch timing - on demand or scheduled
- Includes unified patching of OS, JDK, WLS, JRF/ADF
- Supports rolling patching
- Supports Patchset Updates (PSUs), Patchsets (PS), Upgrades
- Don’t mess with backups! Full backup created before patching

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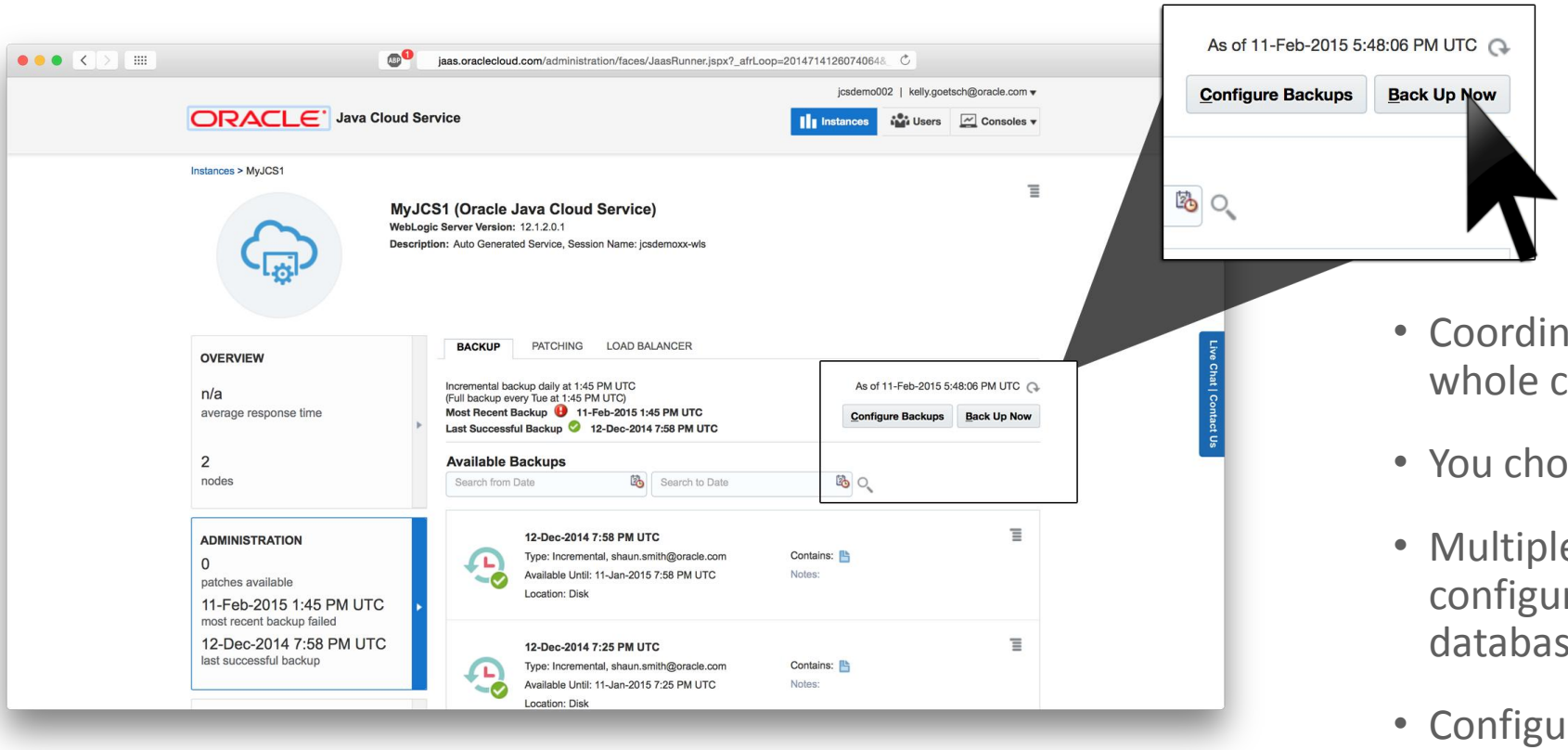
Java Cloud Service Feature: Backup / Restore



- Coordinated backups with database and whole cloud stack - holistic backups
- You choose - scheduled or on demand
- Multiple depths supported: configuration/apps, logs, binaries, and database
- Configurable: 7 day backup on local disk, older backups pushed to storage service

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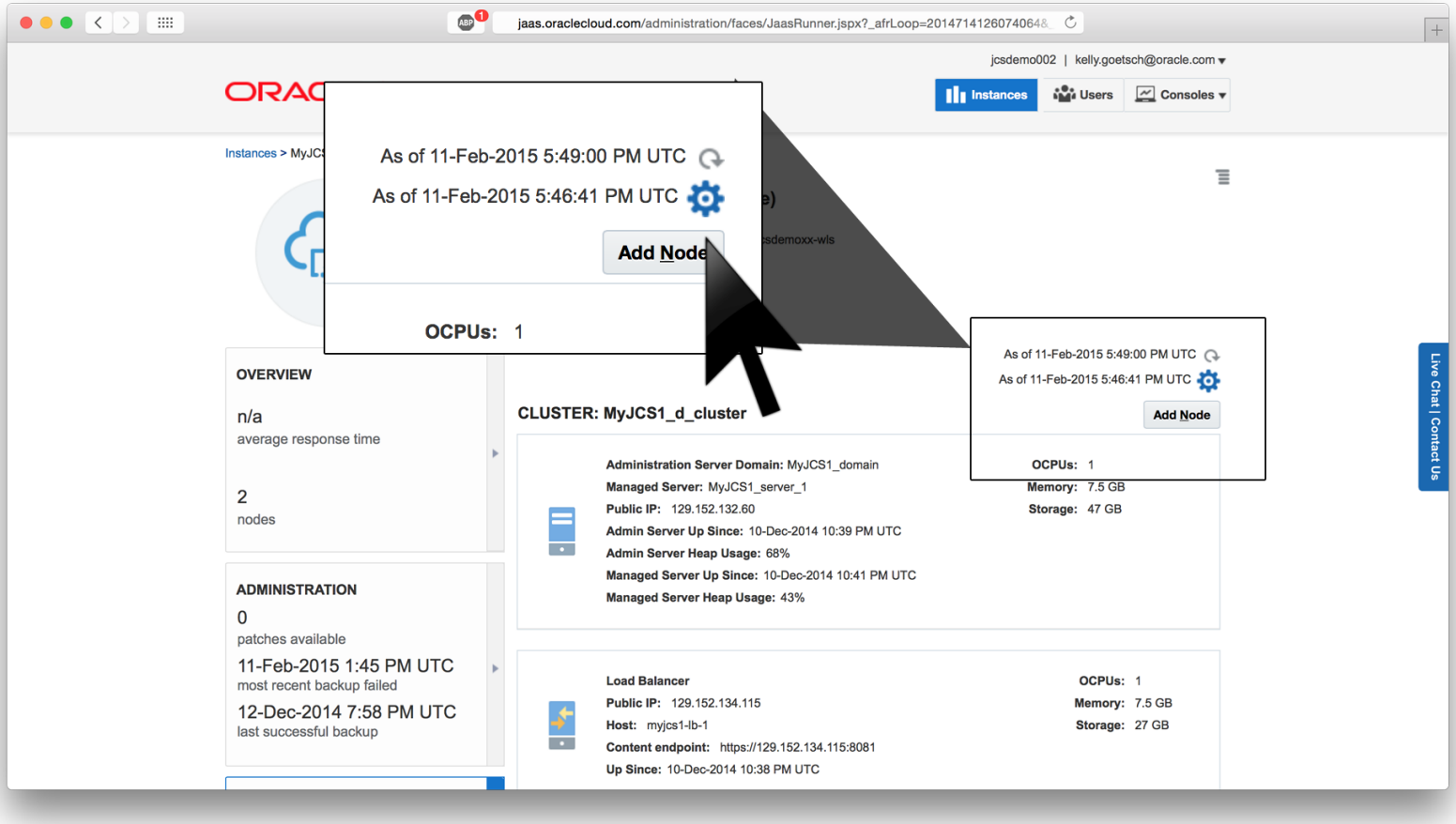
Java Cloud Service Feature: Scaling

- Fully-automated, on-demand – do it yourself without IT!
- Each managed server on separate virtual machine
- Zero downtime during scaling – keep customers happy
- Scale data capacity and processing up/down on demand – expand & retract at your own pace & business needs



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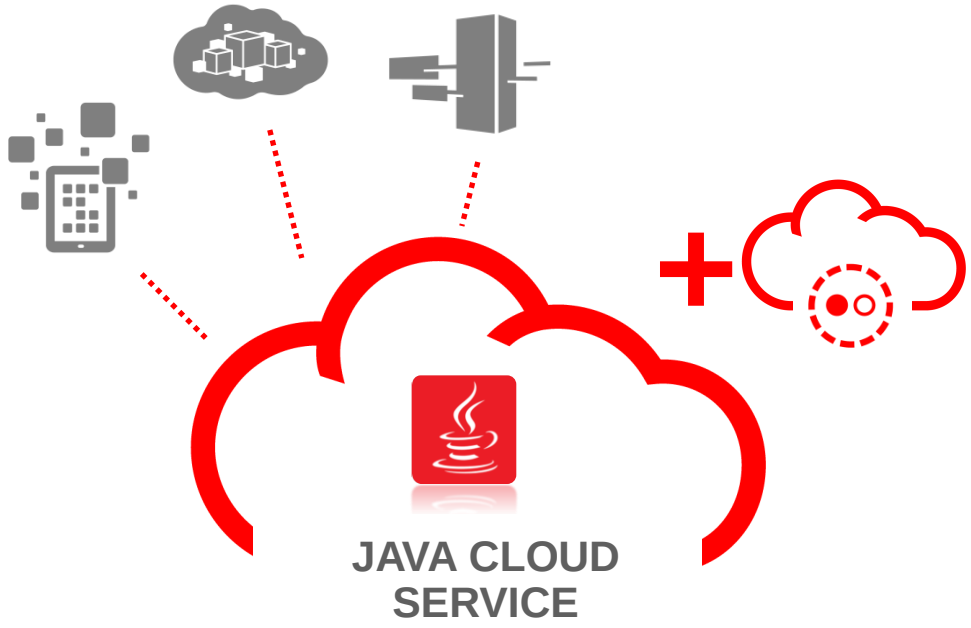
Java Cloud Service

Oracle Coherence Option: Data Caching & Scaling



- Scaling applications' caching/data grid capacity in-memory to support growth
- Offload and protect shared cloud services and databases
- Delivery of data to cloud apps in real time
- Transparency and high-availability in the cloud's data grid tier

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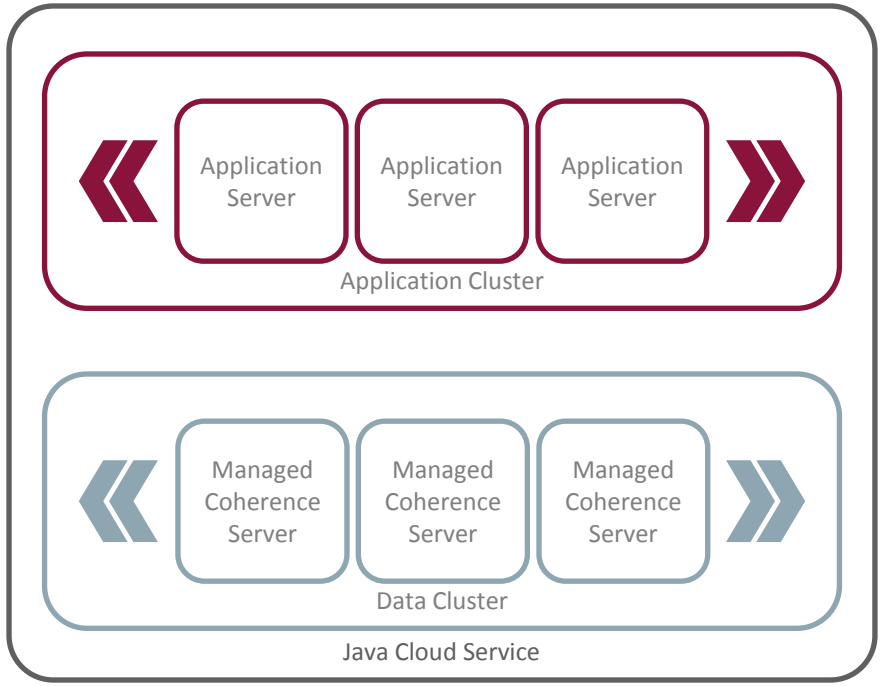
Java Cloud Service

Coherence Option: Seamlessly Deploy

- Coherence as a feature of Java Cloud Service
- Build on WebLogic/Coherence 12c (12.1.3)
- Leverages Managed Coherence Servers
  - Develop, deploy, manage and monitor your applications via WebLogic Management Framework
- One Coherence cluster per domain
- Coherence (TCMP) cluster spans Java Cloud Service and Coherence Cloud Service managed servers
- Cache storage disabled in the application tier



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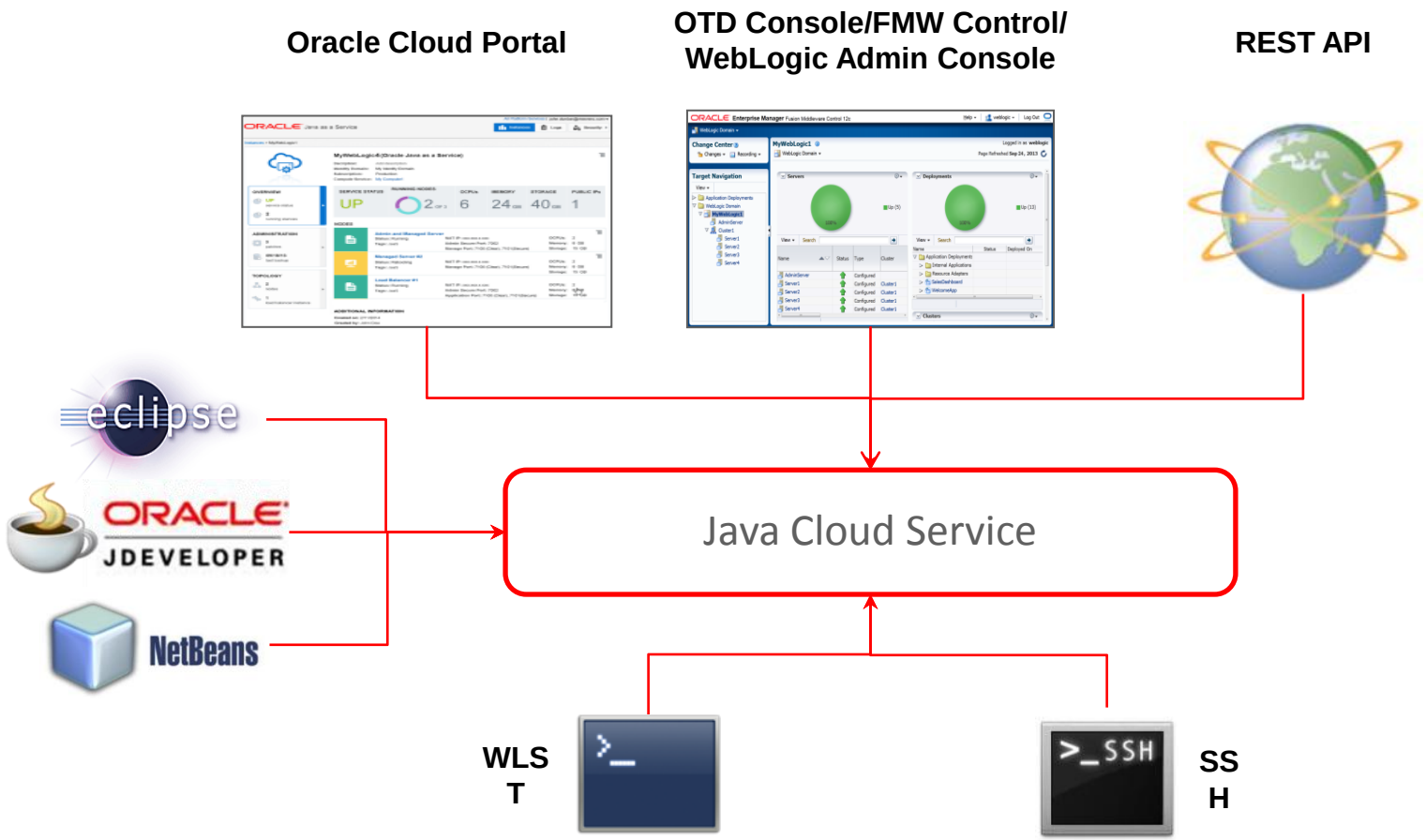
Java Cloud Service: User Interface



- Customer facing JCS portal, integrated with My Services and My Account portal
- WebLogic Admin Console
- Fusion Middleware Control
- Traffic Directory Admin Console
- Public REST APIs
- Command Line Interface
- Standard IDEs
- SSH to VM
- SQL Developer etc. to Database Cloud Service

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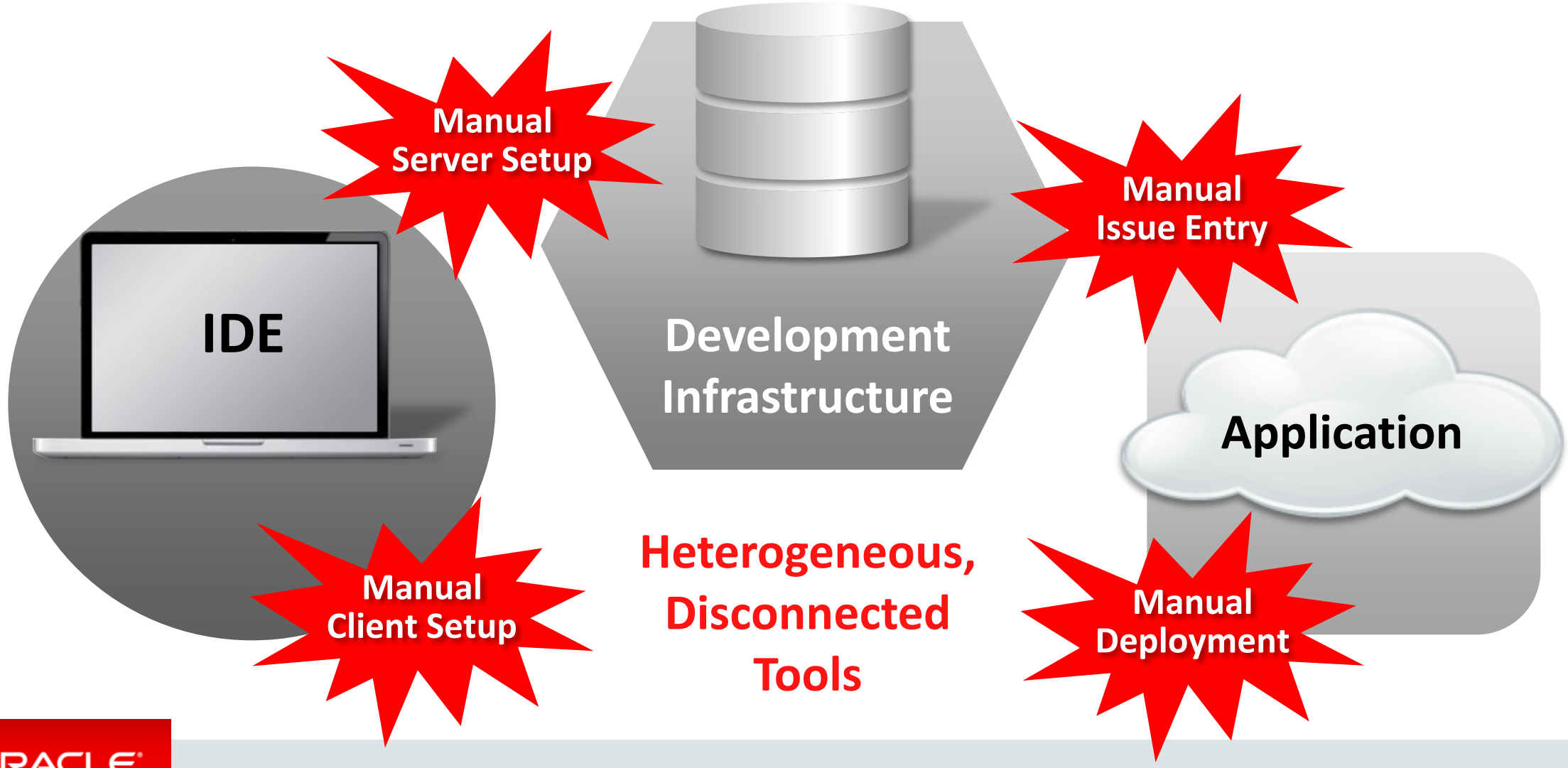
Team Development Challenges

What does it take to start a new project



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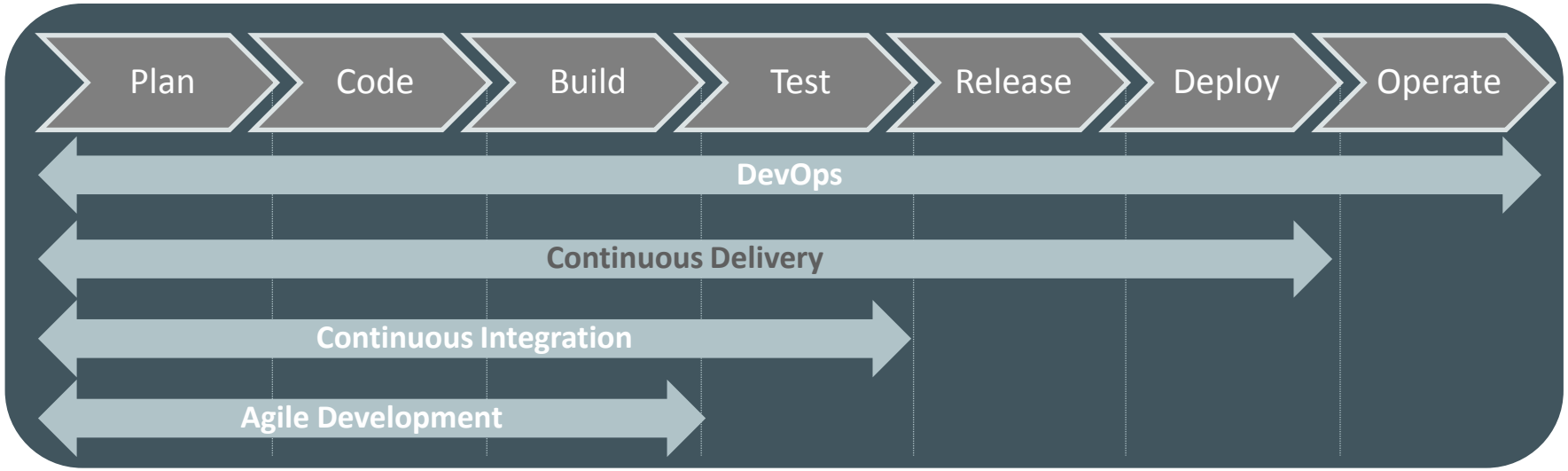
Big Picture

Continuous Integration, Continuous Delivery and DevOps



- CI is a key component of Agile Development practices. It forces developers to integrate their individual work with each others as early as possible. This exposes integration issues and conflicts on a regular basis.
- CD will give the tools and best of breed practices to deliver quality software quickly. At the end of every CI build, it would be delivered to the QA team for testing and then to the operations team (the *Ops* in DevOps) for delivery to the production system.
- DevOps would help in establishing the behaviors, culture, and ways of working to fully utilize CD.

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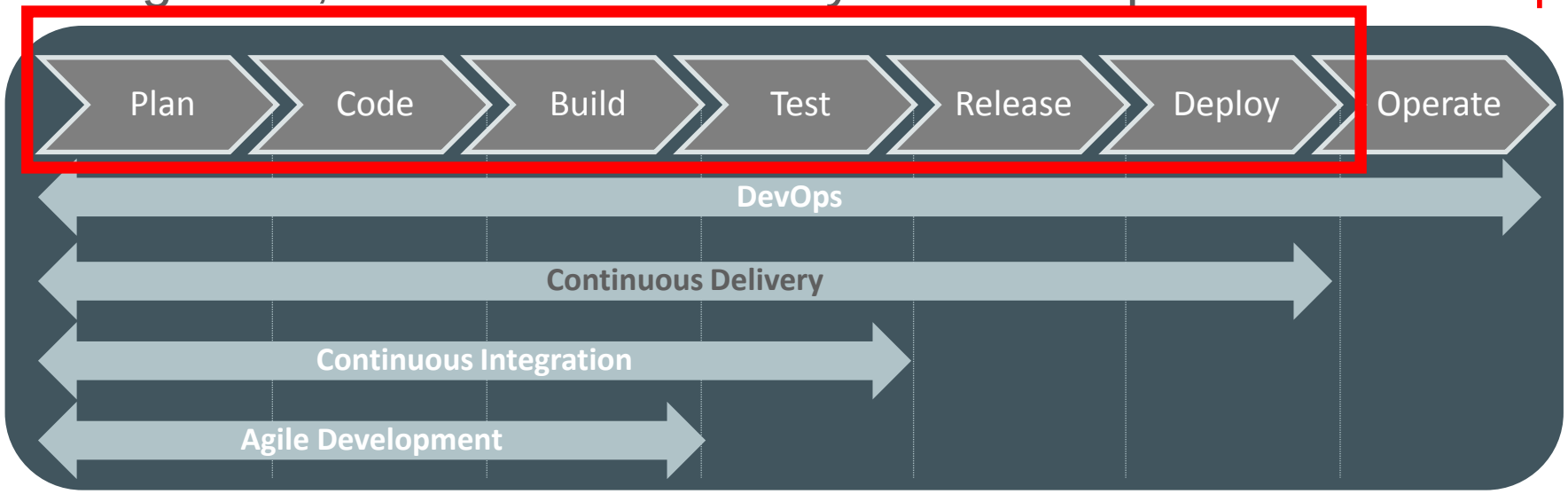
Big Picture

Continuous Integration, Continuous Delivery and DevOps – DevCS scope



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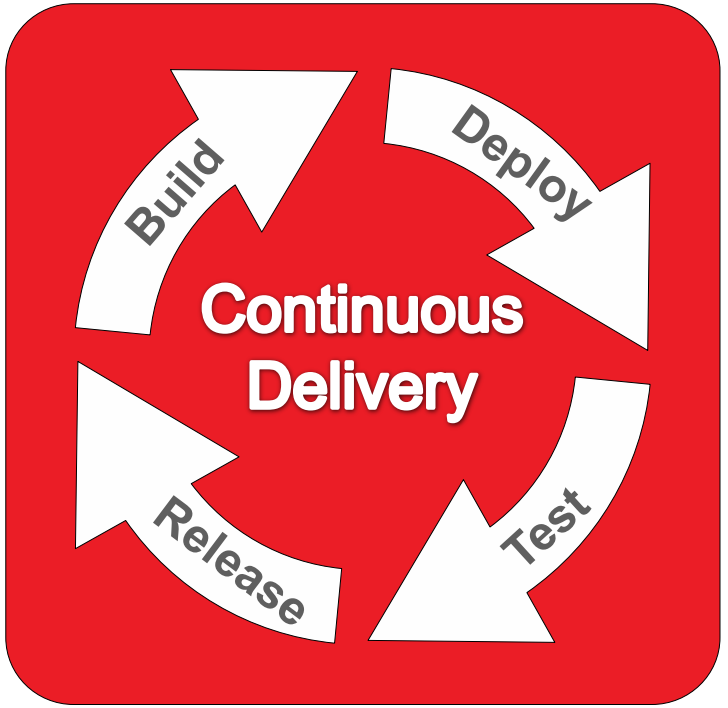
What is Continuous Delivery (CD) ?

- A Software Engineering discipline aimed at building, testing and releasing software in a flow
- Requires a set of collaboration practices, engineering techniques, skills and tools
- Produce Software in short cycles
- Produce a deployable-to-production build regularly
- Reduce the cost, time and risk of delivering incremental changes



"If Agile Was the Opening Act, Continuous Delivery is the Headliner“

- Kurt Bittner, Principal Analyst, Forrester Research

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What the Analysts Say

By 2017, 35% of new applications will use cloud-enabled Continuous Delivery and DevOps lifecycles for faster rollout of new features and business innovation.

Source: IDC Reveals Cloud Predictions for 2015
https://www.idc.com/getdoc.jsp?containerId=prUS25350114

Continuous Delivery Is Reshaping The Future Of ALM

Source: Application Development & Delivery Professional on July 22, 2013

Using a Continuous Delivery method to deploy smaller bits of functionality more often, development teams can lessen the overall risk of their releases.

Source: Exploit Continuous Delivery Patterns for Successful Release Management on September 03, 2013

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CD - Competitive Landscape

	ORACLE PUBLIC CLOUD	redhat OPENSHIFT	CloudBees	OnDemand	CloudForge by CollabNet	IBM Bluemix	Microsoft Azure
Requirement Tracking	Bugzilla		Jira		Trac, Bugzilla	IBM Track & Plan	Microsoft Track
Languages	Polyglot*	Polyglot	Polyglot	Java, .NET	Polyglot	Polyglot	Polyglot
SCM	Git, GitHub	Git, GitHub	SVN, Git, GitForge, GitHub	SVN	Git, SVN	Git, Jazz, GitHub	Git, TFVC, GitHub
Build	Ant, Maven	Ant, Maven	Ant, Maven	Ant, Maven, Make, .NET	TeamForge Project	Ant, Grunt	Proprietary
CI	Hudson, External Jenkins using Webhook	Jenkins	Jenkins	Bamboo	TeamForge Project	IBM Continuous Delivery Pipeline	Proprietary
Deployment Platform	On Premises, Oracle Cloud	RedHat JBoss	No Hosted App Server	No Hosted App Server	No Hosted App Server	Liberty for Java, SDK for Node.js	Microsoft Azure
App Server Support	Yes	Yes	No	No	No	Yes	Yes
DB Support	Yes	Yes	No	No	No	Yes	Yes
Remarks		No ALM Services, No Team Mgmt	No native support for ALM				

*DevCS is going to be available for upcoming Java SE, Node.js and AppBuilder Cloud Services

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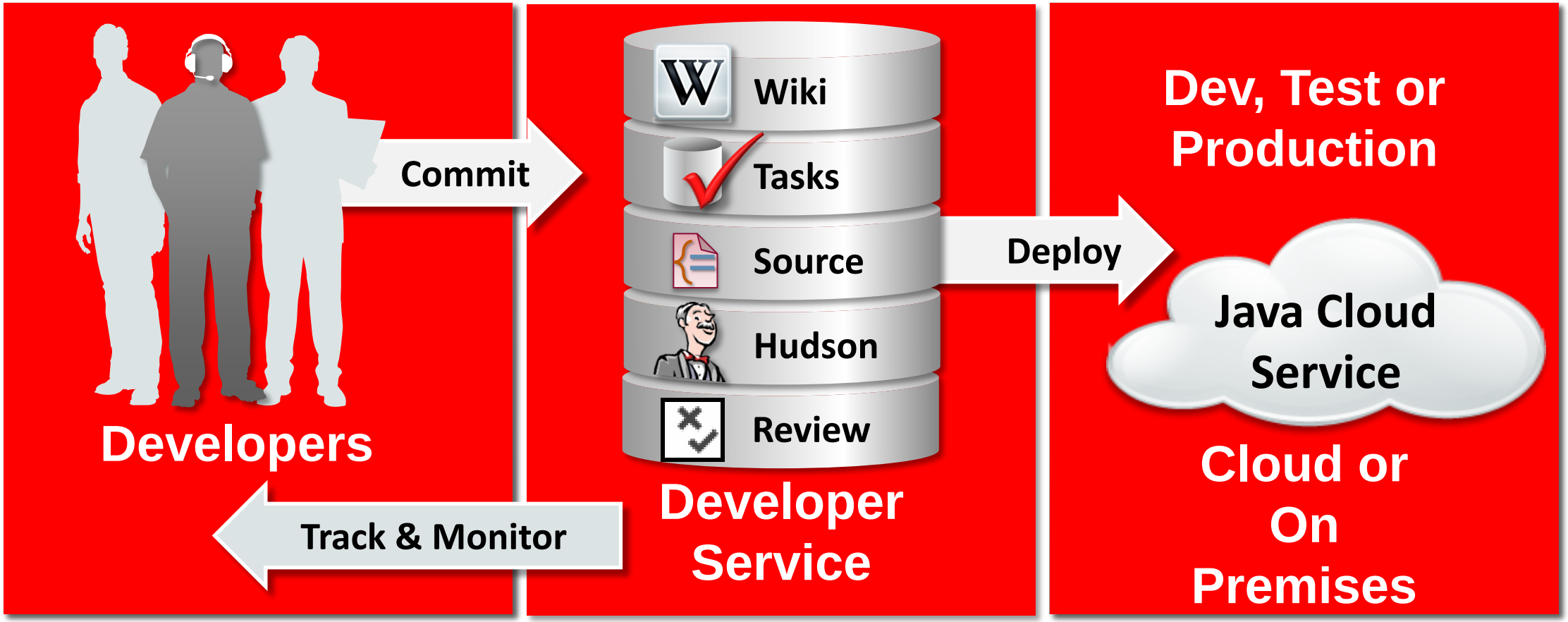
Developer Cloud Service: Bringing it All Together for CD



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Key Features of Oracle Developer Cloud Service (DevCS)

Application Lifecycle Management

- Source code version management - Git
- Build automation - Maven & Ant
- Continuous Integration – Hudson
- Deployment service

Team collaboration and management

- Task/Requirements tracking system
- Peer code reviews
- Wiki server
- Project Templates
- Team activity tracking
- Team administration

Accessibility

- Web based interface
- IDE Integration
  - Eclipse, NetBeans , JDeveloper
- REST API
- Shell to Git
- Eclipse Mylyn integration

Extensibility

- GitHub compatible Webhook
- Jenkins Git plugin Webhook

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Developer Cloud Service Features for the Oracle Platform

- Oracle Cloud Integration
  - Seamless deployment to Oracle Java Cloud Service
  - Central management console
  - Project templates
- Oracle Platform Support
  - WebLogic 11g/12c
  - ADF 11g/12c Libraries
  - SOA 12c Libraries
  - JDeveloper deployment profiles (including SOA)
  - IDE integration – OEPE, NetBeans and JDeveloper (12.2.1)

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Licensing and Packaging

- Entitlement with other services
  - JCS-SX, JCS, Messaging, SOACS, MCS, NodeCS, JavaSECS
- Working towards a stand-alone license
  - Likely early 2016
  - Will allow for further growth beyond entitlement

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Developer Cloud Service Use Cases

Extending/Integration Oracle SaaS Apps (With Java Cloud Service)

- Pre-integrated deployment
- Setup correctly for Java/ADF development with fusion apps
- Templates for fusion apps available

Java EE Development (With Java Cloud Service)

- Automated deployment through CD
- Familiar infrastructure
- Monitoring and management of Java Cloud Service

Integrated ALM (Standalone Developer Cloud Service)

- Hosted no-setup experience
- Team collaboration/management

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Developer Cloud Service Use Cases

Target audiance

- Developer and DevOps organizational units
  - Small, middle, big
- PaaS customers (JCS, MCS, Node.js, JavaSECS, ...)
  - Running apps developed by third parties
  - Forcing them to develop in DevCS
    - Important benefit: code and CD implemented in DevCS, so third party can easily be replaced

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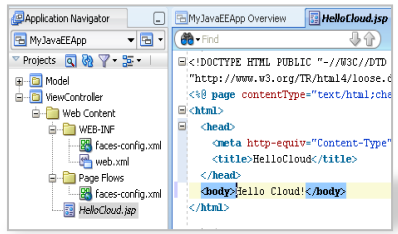
Oracle Developer Cloud Service - Interfaces



JDeveloper, NetBeans and Eclipse

Web Dashboard

REST Interface

SSH to GIT

Mylyn

Mylyn

Partners

Developer Cloud Service

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Oracle Developer Cloud Service Summary

Simplify Development

- Automated Provisioned Env
- Preconfigured & Integrated
- Automated Builds & Deployments
- Web based administration

Collaborate & Manage

- Integrated team source repository
- Continuous integration with breakage notifications
- Task/Defect tracking with activity stream and notifications

Deploy Automatically

- Deploy into Oracle Java Cloud Service automatically
- Workflow ensures build & test

Integrated With IDEs

- JDeveloper
- Eclipse
- NetBeans

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Developer Cloud Service Benefits

- Eliminate setup and startup time
- Reduce maintenance costs
- Get integrated ALM solution
- Extend code accessibility
- Improve team collaboration
- Simplify team management
- Streamline cloud deployment
- Produce better applications faster

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Demo

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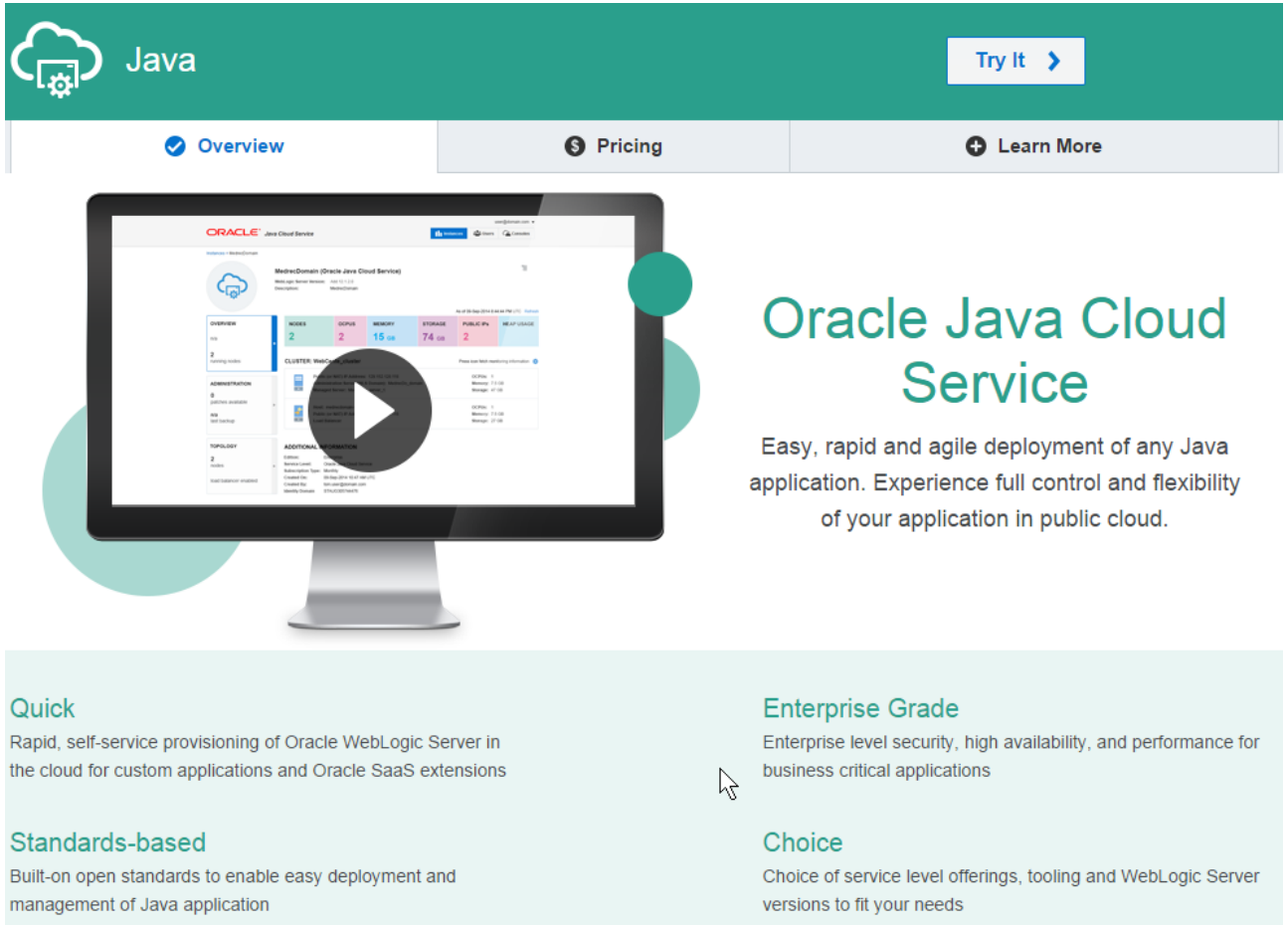
Java Cloud Service Resources

All available @ http://cloud.oracle.com/java



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- Datasheets:
  - Java Cloud Service
  - Java Cloud Service – SaaS Extension
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  - Public Cloud FAQ
  - Java Cloud Service FAQ
- Demo Videos
- Forum
  - Public Cloud
  - Java Cloud Service
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- Documentation

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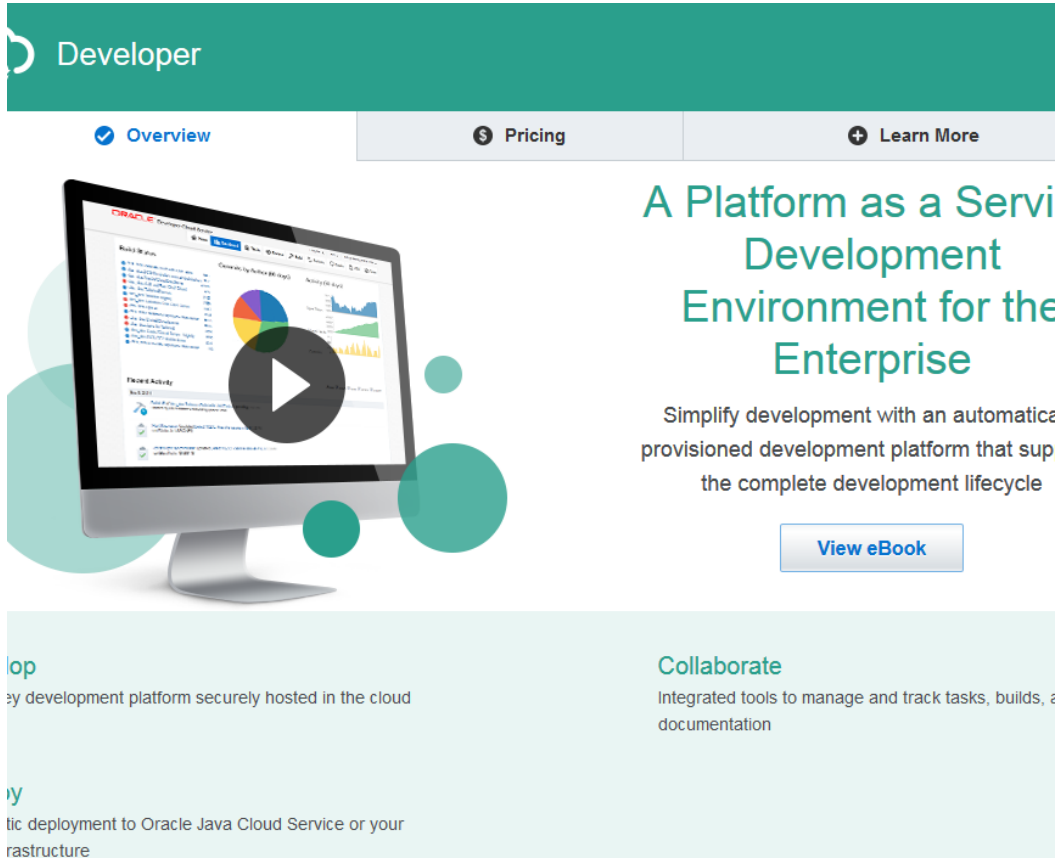
Developer Cloud Service Resources

cloud.oracle.com/developer_service



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Integrated Cloud

Applications & Platform Services

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