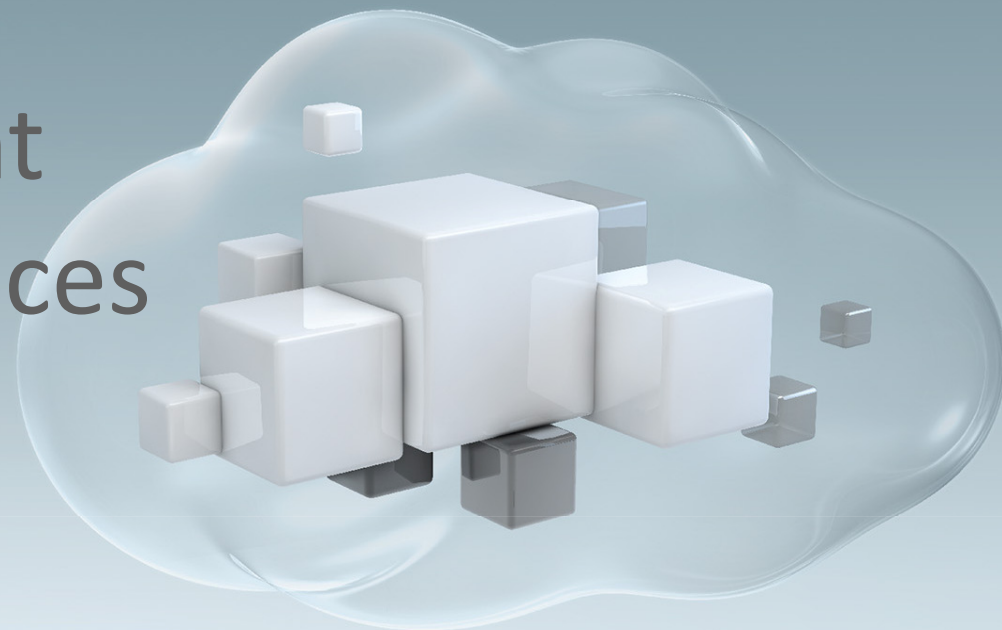


Application Deployment with Oracle Cloud Services

Lift and Shift Applications from On-Premises
to Oracle Cloud

Duško Vukmanović

October 2015

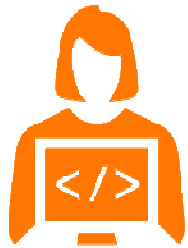


Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

PaaS is Growing Rapidly Because...

IT Development, Operations And Line of Business Want



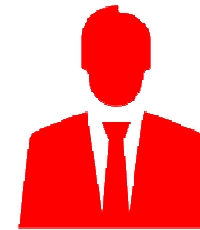
Developers Agility & Quality

- Latest Technology
- Instant Access
- Better Code
- Frequent Releases
- Build Once Deploy Anywhere



IT Operations Performance & Costs

- Faster Response
- Higher QoS
- Lower Risk
- Lower Costs
- Do More with Less



Line of Business Innovation & Speed

- New Markets
- New Products
- Richer Insights
- Ubiquitous Access
- Ease of Use

Cloud Drivers

Agility

4+ months
to deploy new
business applications

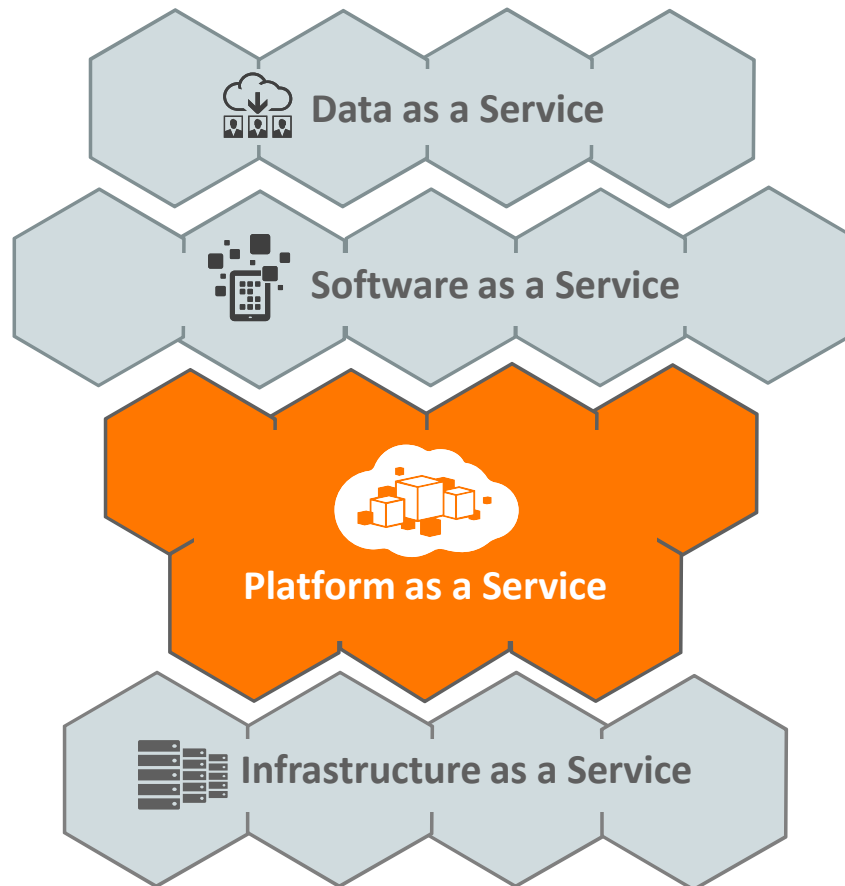
Cost

Average server
utilization
10 ~20%

Risk

Unplanned
downtime costs
\$10k ~ \$20k
per minute

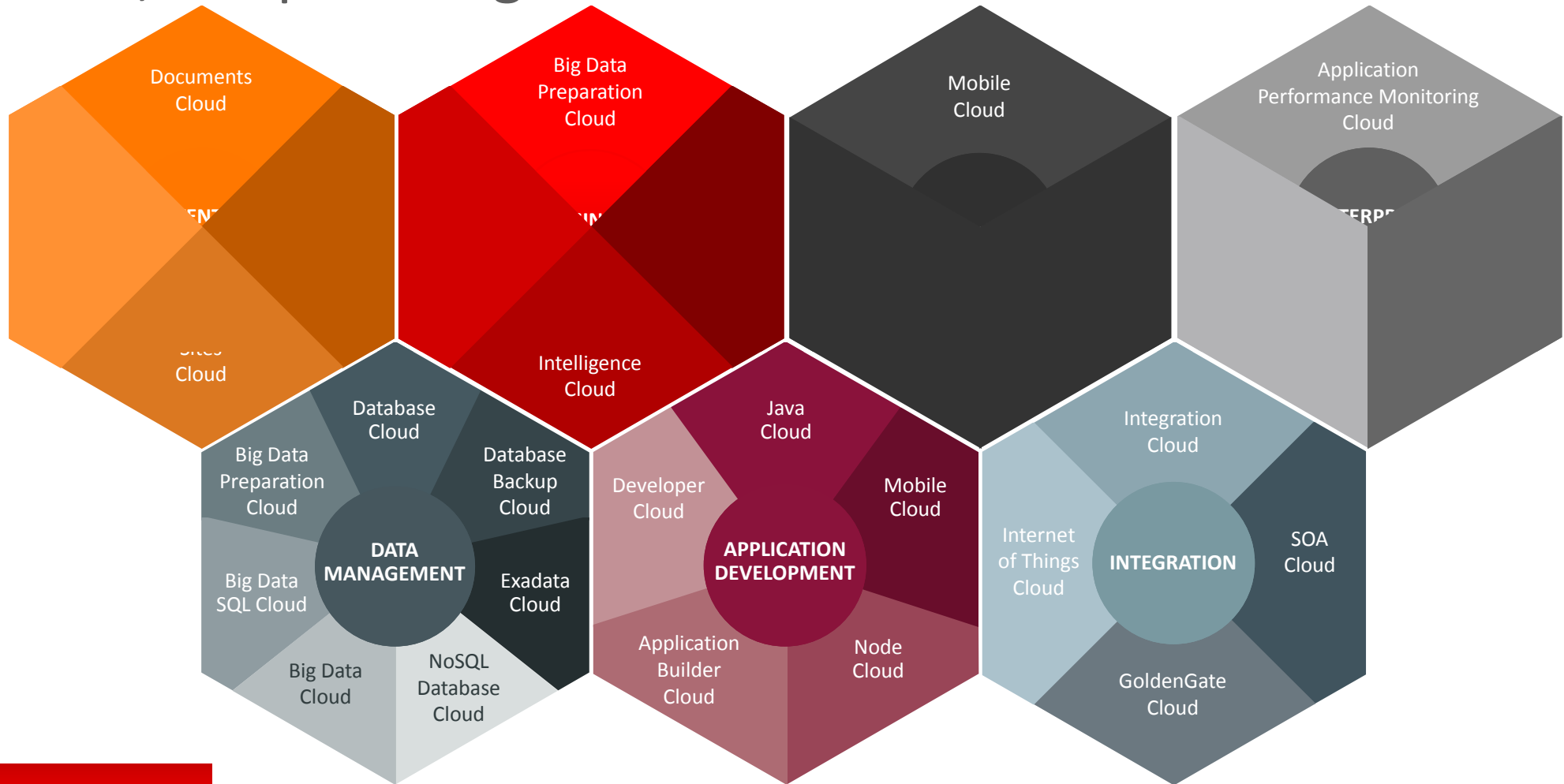
Oracle Cloud Platform Strategy



Bring Oracle's leading Database and Middleware Technology Software to customers and partners anywhere in the World through the Internet



Broad, Deep & Integrated Portfolio of Cloud Platform Services



ORACLE®

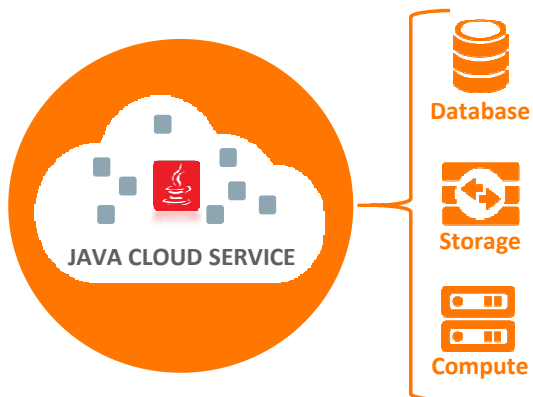
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Bird's-eye View of Java Cloud Service (Launched In FY15)

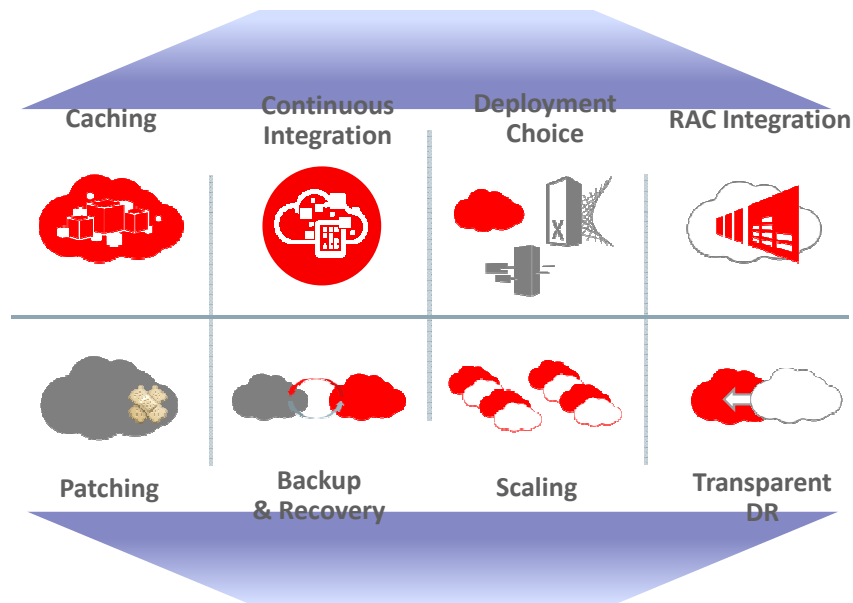
Your platform for running business applications in the cloud

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



Java Cloud Service Basics

Your platform for running business applications in the cloud

- Self-service application platform with advanced cloud tools
- Save time and cost with simplified provisioning
- Reduce down time: automated patching, backup, recovery
- Increase data and processing capacity on demand to scale for new business needs
- Enable Oracle Coherence for caching & data grid functions
- Pre-configured for Database and Developer Cloud Services for complete cloud application management



Java Cloud Service is Transforming Java Application Delivery

Old Model – WebLogic

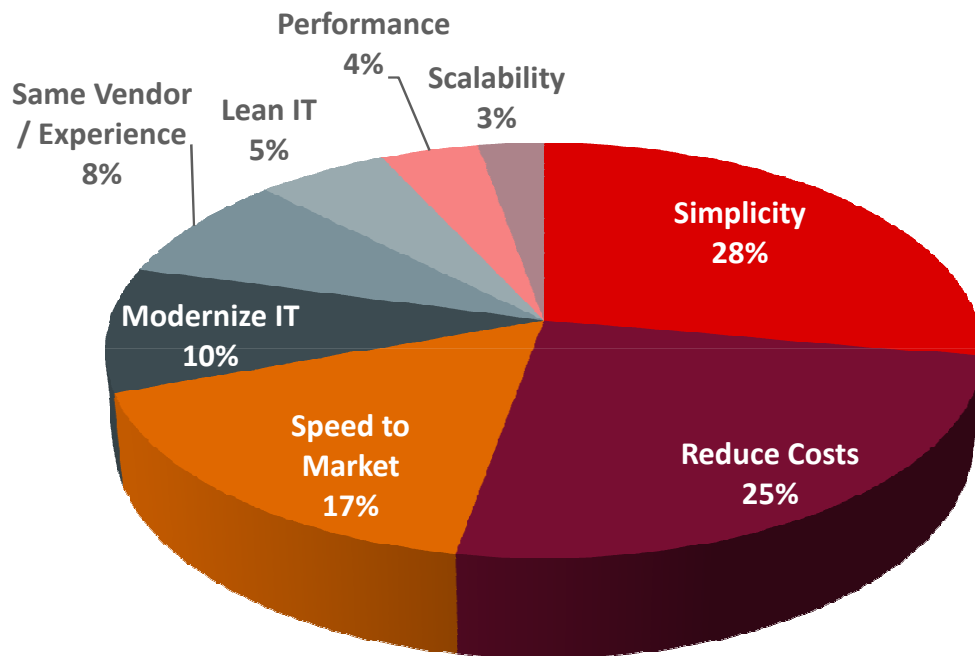
Buy Perpetual/Term Licenses
Download, Install, Configure WebLogic
Configure Database Connections
Install, Configure Load Balancer
Install, Configure Coherence Cache
Manual Ops – Provision, Patch, Backup, Scale
Administrator-driven Model
On-Prem Only; Limited 3rd Party Cloud Options

Cloud Model – Java Cloud Service

Buy Cloud Credits, Pay As You Use
Consume Cloud Services As You Need
Pre-wired with Database Cloud
Pre-wired with Load Balancer
Pre-wired with Coherence
Automated Ops – Provision, Patch, Backup, Scale
Self-service, Self-managed, On-demand Model
Hybrid Cloud – JCS On Exalogic Out-of-the-box



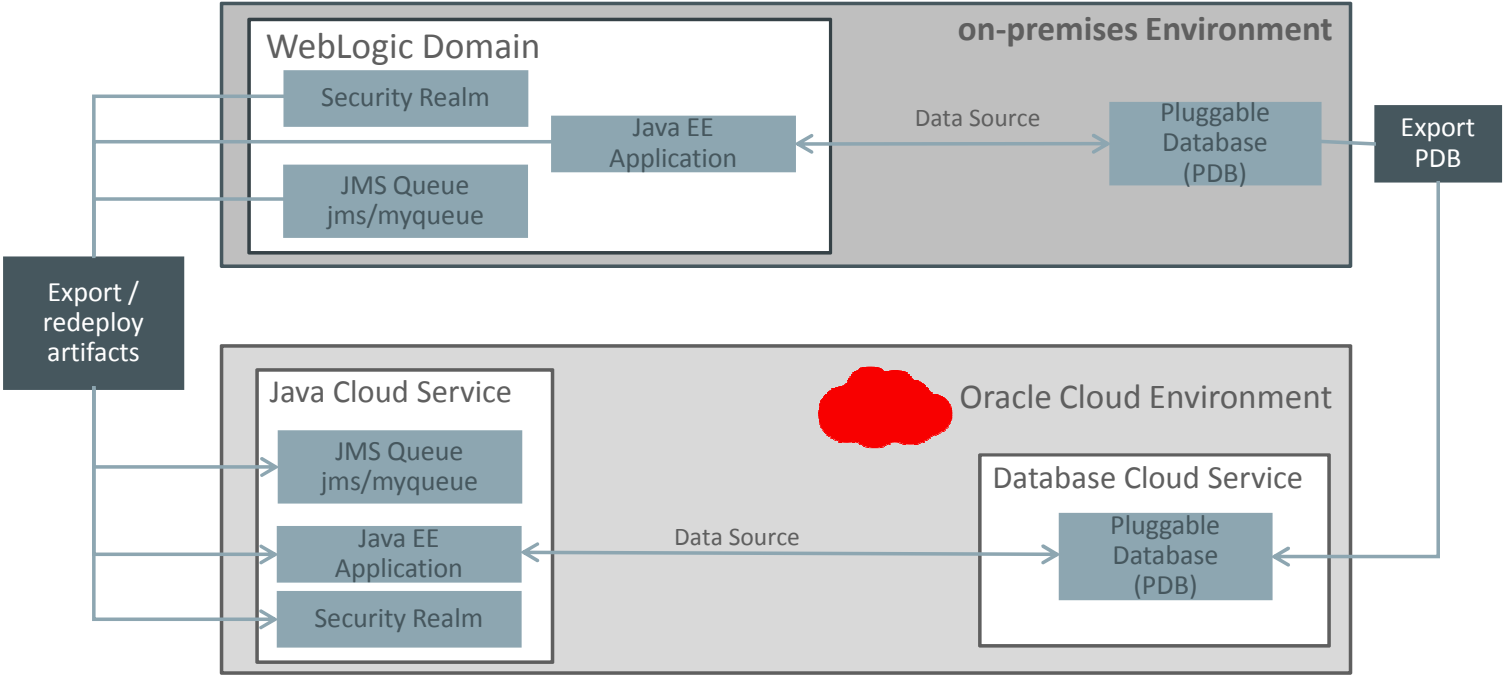
Why Customers Choose Java Cloud Service ...



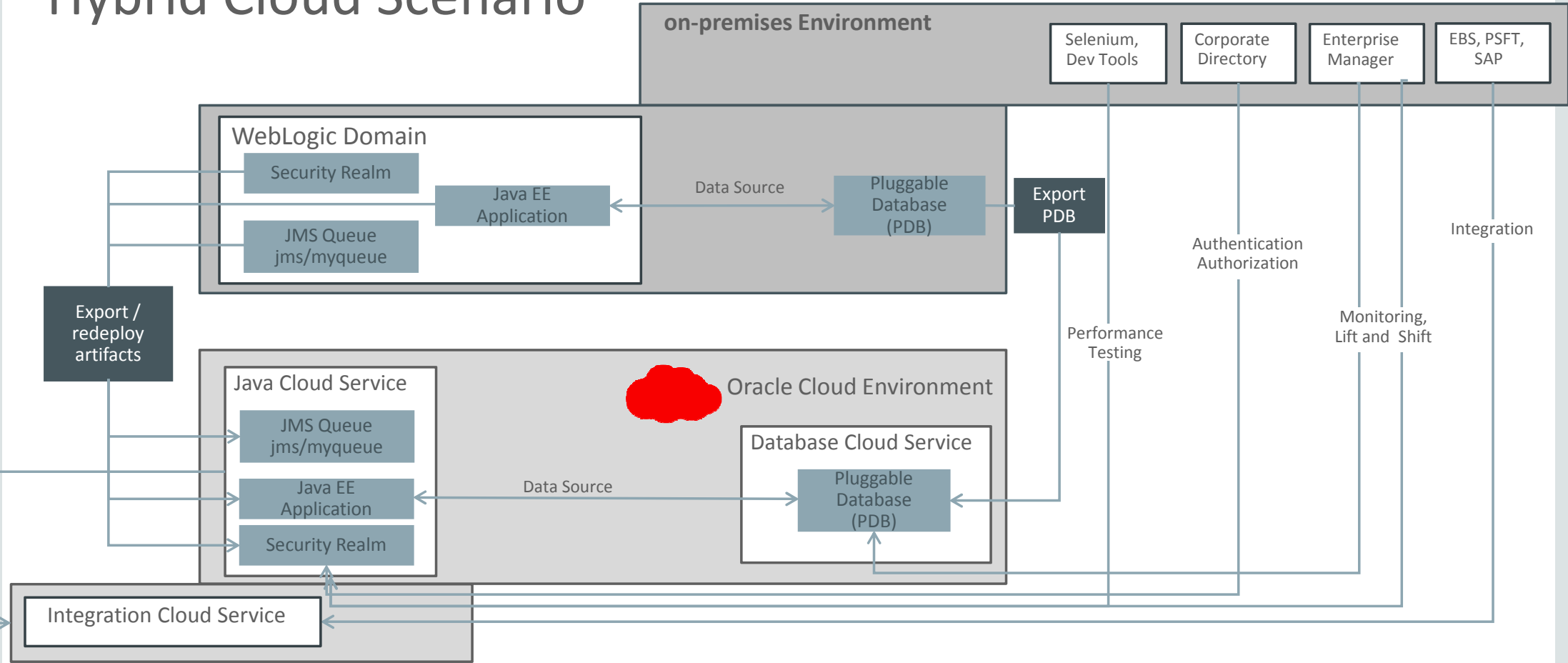
Top 4 Reasons For Choosing JCS:

- **Simplicity**
 - Easy to deploy, configure, implement
- **Reduce Costs**
 - Reduce CapEx, dev/test environment costs, free up resources
- **Speed**
 - Faster time-to-value, rapid provisioning
- **Modernize IT**
 - Hybrid Cloud strategy for app dev

Lift and Shift to Oracle Cloud



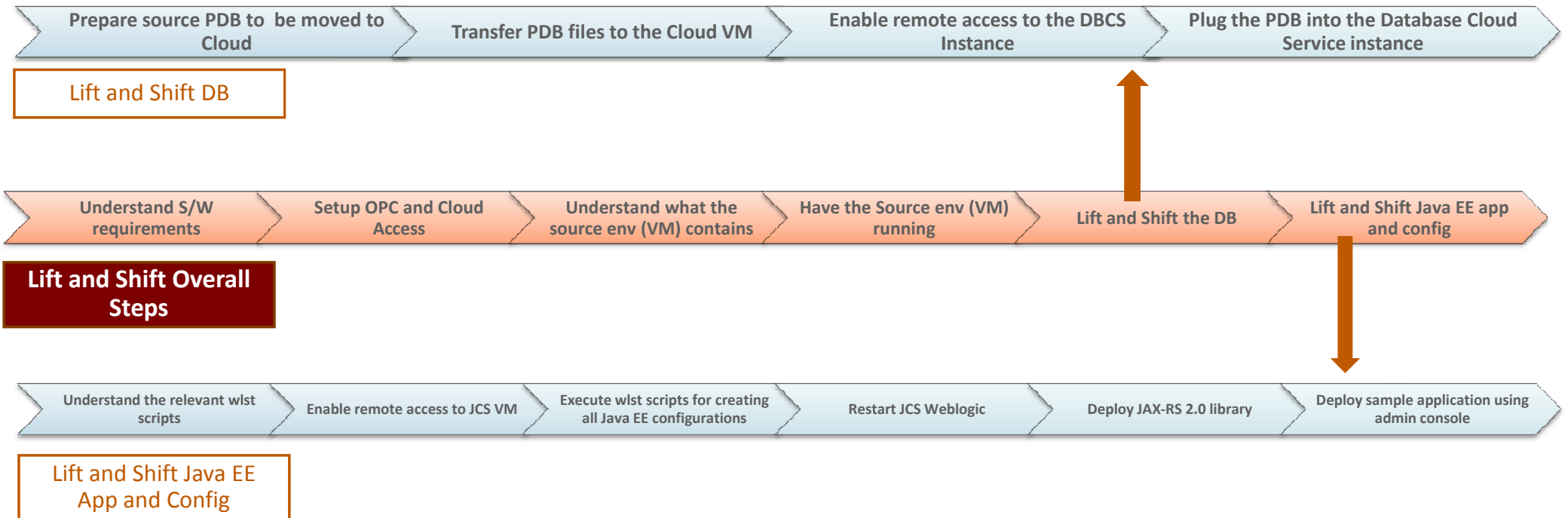
Hybrid Cloud Scenario



Lift and Shift Tutorial Overview

- Basic Version of the tutorial
 - On-premises environment (WLS 12c) captured in a VM
 - Lift and Shift PDB from on-premises to Database Cloud Service
 - Use wlst based deployment of on-premises WLS JavaEE app, to Java Cloud Service
- Extended version
 - On-premises Active Directory integration, Identity Federation based approach

Lift and Shift – Basic Tutorial





Deploy OE Application using Admin console

Deployments

/home/oracle/workspace/oraclecloud

Servers

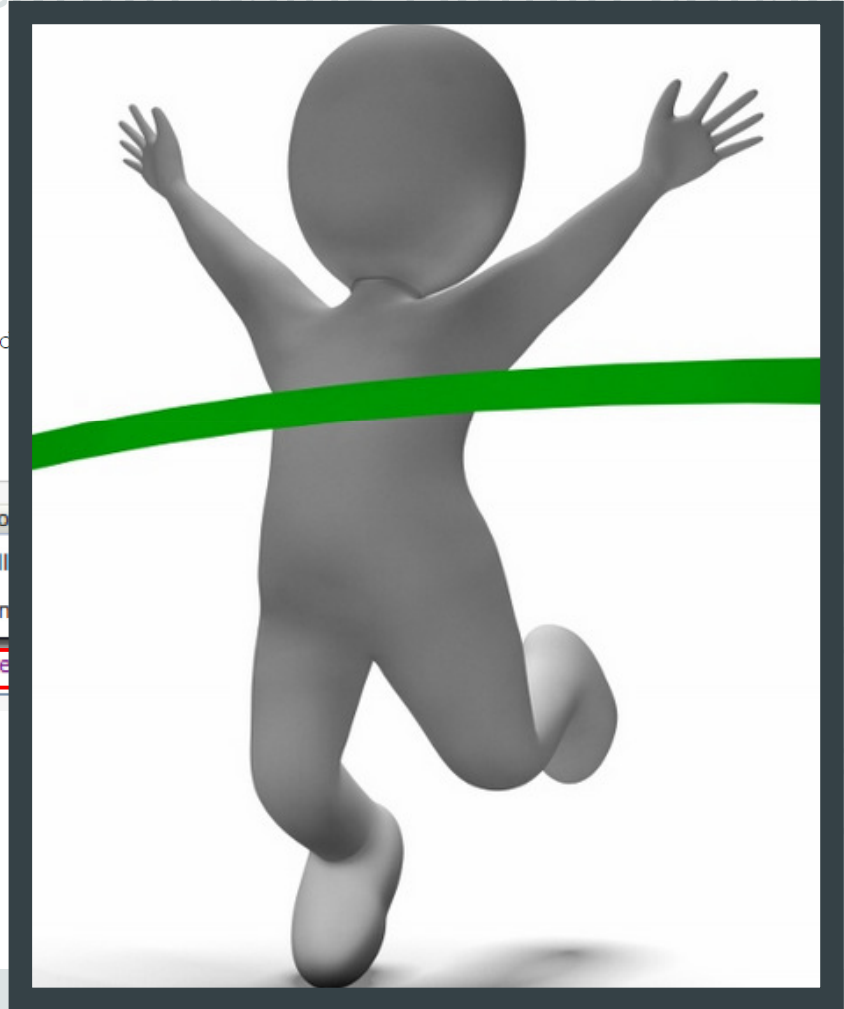
demojcs_adminserver

Clusters

demojcs_cluster
 All servers in the cluster
 Part of the cluster
 demojcs_server_1

Module

Servicing all
 Servicing on
 jcs-oe



to Weblogic domain admin
the "Deployments" section
"Check and Edit" the console

"Deployments" and "Install"
shared library

(jcs-oe-1.0.0-SNAPSHOT1.0.war), available
/.

steps for the
next, choose the admin server
cluster for corresponding JCS

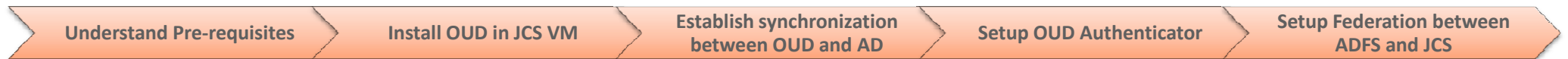


Lift and Shift Tutorial Overview

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Lift and Shift Tutorial – Extended Version

on-premises AD Integration, Identity Federation Based approach



Setup federation between ADFS and JCS

Adding Identity Provider

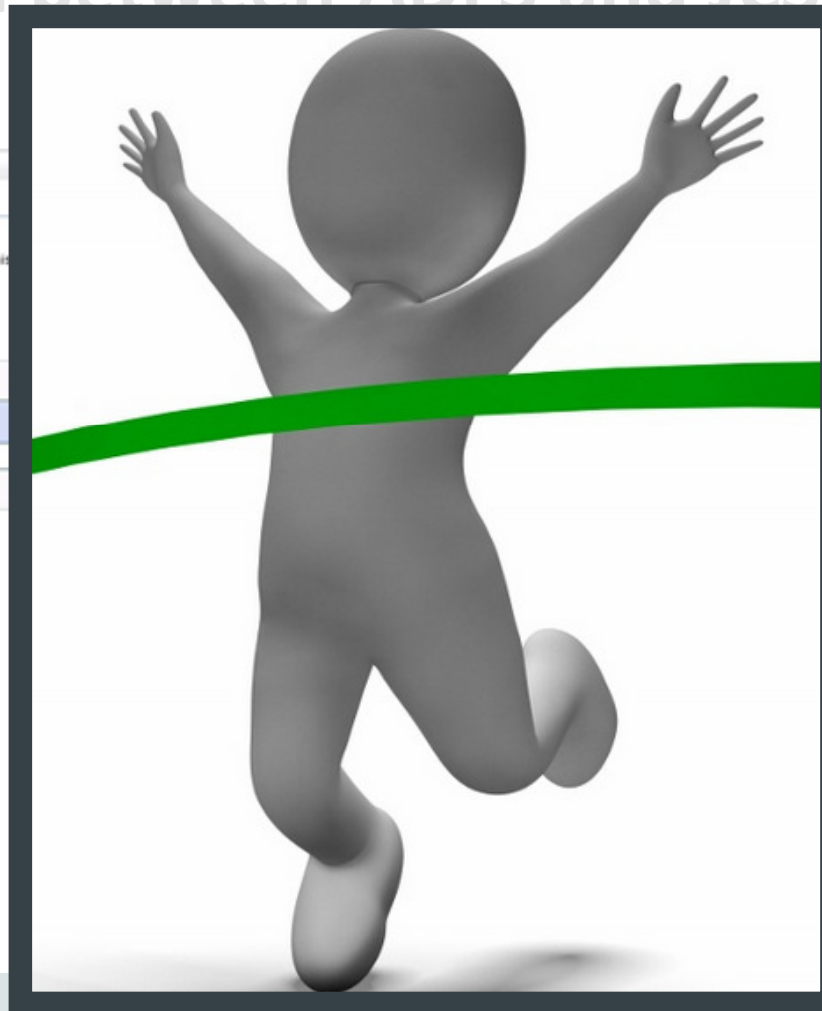


ADFS30 Fed Oracle

Sign in with your organizational account

Alan.Hunter@adfs30.fed.oracle.com

Sign in



to security realm, click
 "DAsserter", in
 "Management" tab, click "New" and
 "New Web Single Sign-On
 Identity Provider Partner"

name, select copied ADFS
 IDP, click OK

to app URL, it should
 go to ADFS login

you can sign in using AD
 credentials

Additional Scenarios important from Lift and Shift Perspective

- Integration of Lifted/Shifted applications scenarios with
 - On-Premises and Cloud Apps integration
 - On-Premises IT tools/software usage
- Scenarios important from Identity and Access Management (IAM) perspective
- Alternate methods and variations for executing Lift and Shift

Summary

- Because of strong business drivers, enterprises are majorly adopting Cloud
- Oracle Cloud makes it easy for customers to Lift and Shift databases and JavaEE applications from on-premises to Oracle Cloud
- For Databases:
 - Pluggable databases can be unplugged from on-premises and plugged to cloud
 - Other techniques like usage of database dump, RMAN and transportable tablespaces are also available
- For JavaEE applications:
 - Applications and relevant configurations (datasources, JMS, security realms), as deployed in On-Premises Weblogic, can be deployed using wlst scripts executed against JCS
- EM CC Hybrid cloud solution offers a comprehensive solution for Lifting and Shifting Databases and JavaEE Applications from On-premises to Cloud
- With Lifted/Shifted applications to Oracle Cloud, customers can continue to:
 - integrate with On-premises directory like AD, using Identity Federation based approach.
 - integrate with On-premises business applications like EBS and Oracle SaaS, like Sales Cloud, using ICS
 - leverage their On-Premises IT investments like EM CC, Selenium, JMeter to work with Lifted/Shifted apps, similar to how these technologies interact with On-Premises applications.

Learn More

Oracle Cloud Platform as a Service (PaaS) offers a complete and comprehensive set of cloud services that allow developers to build rich applications and business users to harness the platform

- Database**: Your Oracle Database in the Cloud. [Details](#) [Try It](#)
- Messaging**: Dynamic Messaging for Business Workflow Agility. [Details](#)
- Documents**: Enterprise File Sync and Share in the Oracle Cloud. [Details](#)
- Business Intelligence**: Agile Business Intelligence in the Cloud for Everyone. [Details](#)
- Big Data Preparation**: Simplify Big Data Preparation. [Details](#)
- Java**: Enjoy all the productivity of Java, without the IT. [Details](#) [Try It](#)
- Database Backup**: Secured, protected, elastic cloud storage for Oracle database backups. [Details](#) [Try It](#)
- Developer**: Java development in the cloud. [Details](#) [Try It](#)
- Mobile**: Simplify Enterprise Mobile Connectivity. [Details](#)
- Big Data**: Big Data in the Cloud. [Details](#)

cloud.oracle.com/paas

Oracle Developer Cloud Service
Simplify Your Development Life Cycle

Start Developing with Oracle Cloud
Fast-forward through set-up and find the resources to help you explore and use the capabilities of Oracle Cloud Platform as a Service (PaaS). [Get Started](#)

Connect with the Cloud Community
Interested in upcoming events? Reaching out to the Oracle Cloud developers' community for guidance? Or perhaps learning about best practices and new approaches from the seasoned veterans? It's all happening here. [Learn More](#)

Blogs [View all](#) **Events** [View all](#)

- Bimbo Group Optimizes Baked Goods Distribution Costs and Cuts Daily Transport Scheduling Time in Half. Jun 09, 2015 - Dori DiMassimo-Oracle
- Archer Daniels Midland, Oracle Managed Cloud Customer, Wins Oracle Excellence Award. Jun 02, 2015 - Dori DiMassimo-Oracle
- Live Webcasts: Live Webcast - Larry Ellison Unveils New Oracle Cloud Platform Services Live Webcast. JUN 22
- In-Person Events: JUN

ORACLE Cloud Developers

developer.cloud.oracle.com

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ORACLE TECHNOLOGY NETWORK

All Places > Cloud Computing > Platform as a Service (PaaS)

Platform as a Service (PaaS)

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DEVELOP & DEPLOY IN THE CLOUD

- Business Intelligence
- Database
- Database Backup
- Developer
- Documents
- Integration
- Java

About: Oracle Cloud Platform as a Service (PaaS) offers a complete and comprehensive set of cloud services that...
Goals: The goals of the Cloud Developer Community Spaces are to provide rich content and the means to pose c...

Featured PaaS Service:

- START DEVELOPING with Java Cloud
- MIGRATE On Prem to Java Cloud
- DEPLOY an app to Java Cloud

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- Oracle Cloud Zone @OracleCloudZone 21 Jun #OraclePaaS: allowing you to use native @Java for #cloud or mobile applications: ora.ci/Ou...

RECENT BLOG POSTS

NEW: Fundamental How-to Tutorials for IT Ops & Developers
Posted by Eric Renaud-Oracle Jun 17, 2015

We've just released new content to help developers get started quickly with Oracle Cloud Platform.

In four new how-to tutorials we provide developers and IT ops roles with some quick guides to common tasks

community.oracle.com

Keep Up with Oracle Cloud Platform



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