



Cloud Services for Developers

What's in Oracle Cloud for You?

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Oracle Cloud Platform, 2015

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Speaker



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Why Move to the Cloud?



Why Move to the Cloud?

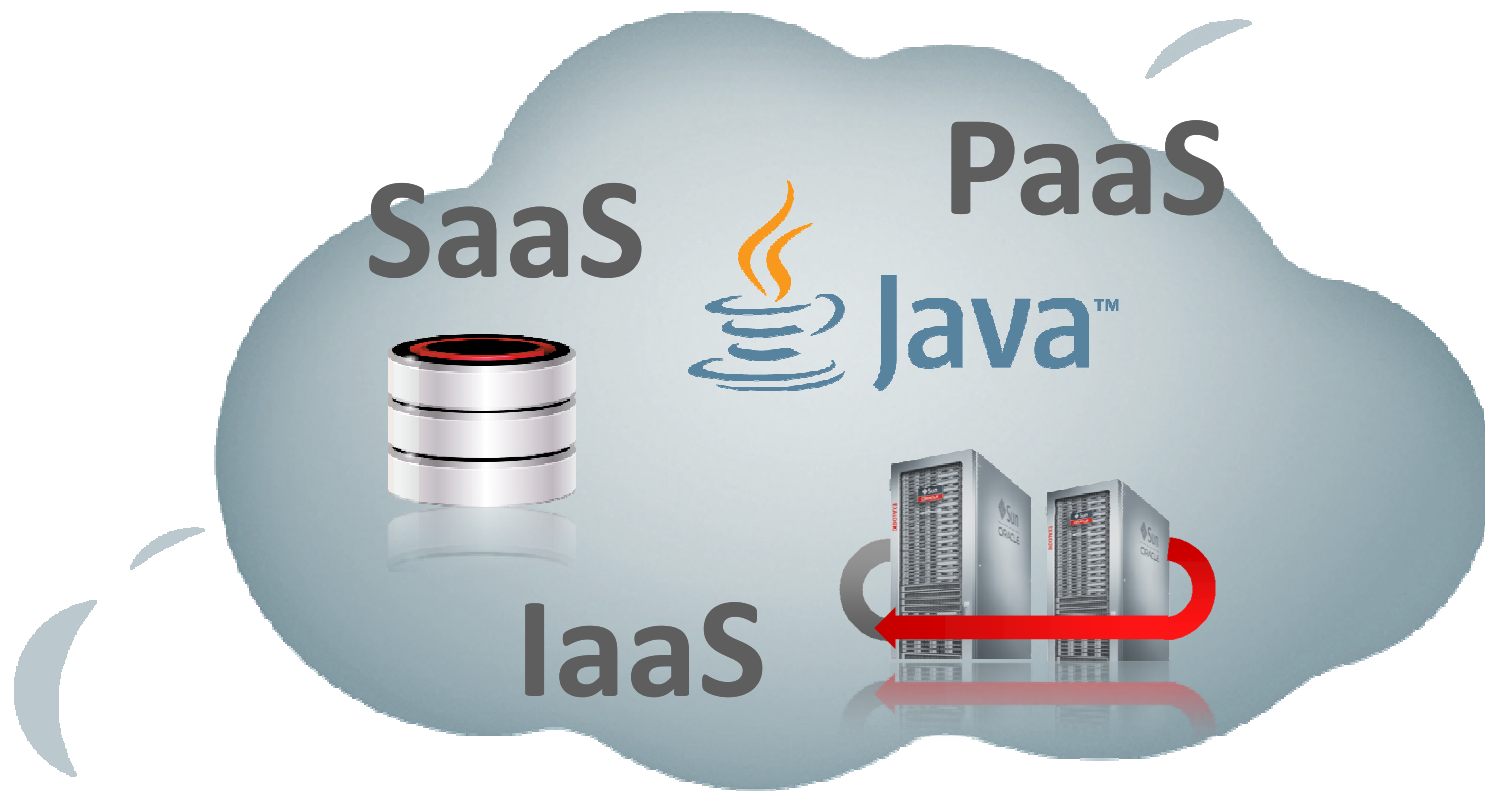
Better applications
developed **faster**
and **cheaper**



Introduction to Oracle Cloud

Integrated Cloud

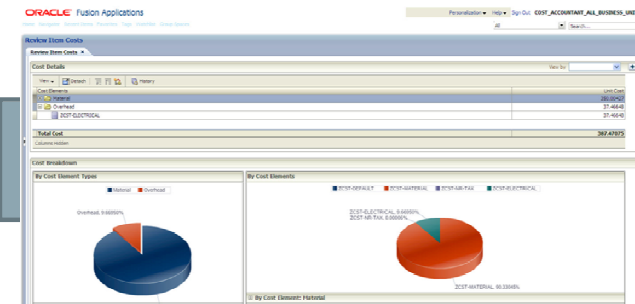
Oracle Cloud



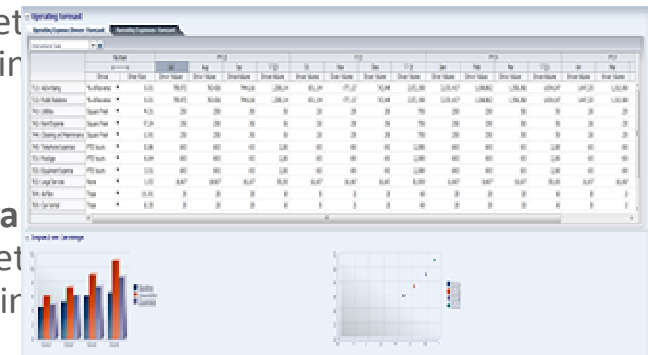
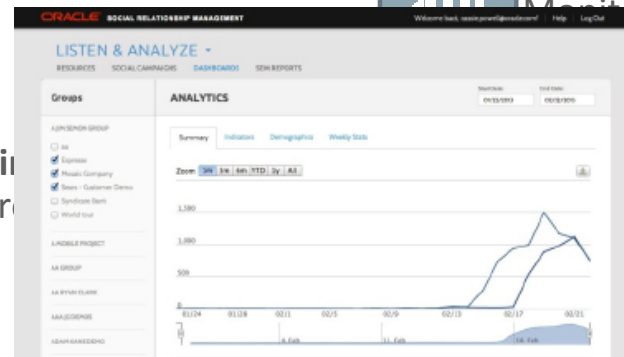
Oracle Cloud – Software as a Service



Human Resources,
Talent Management

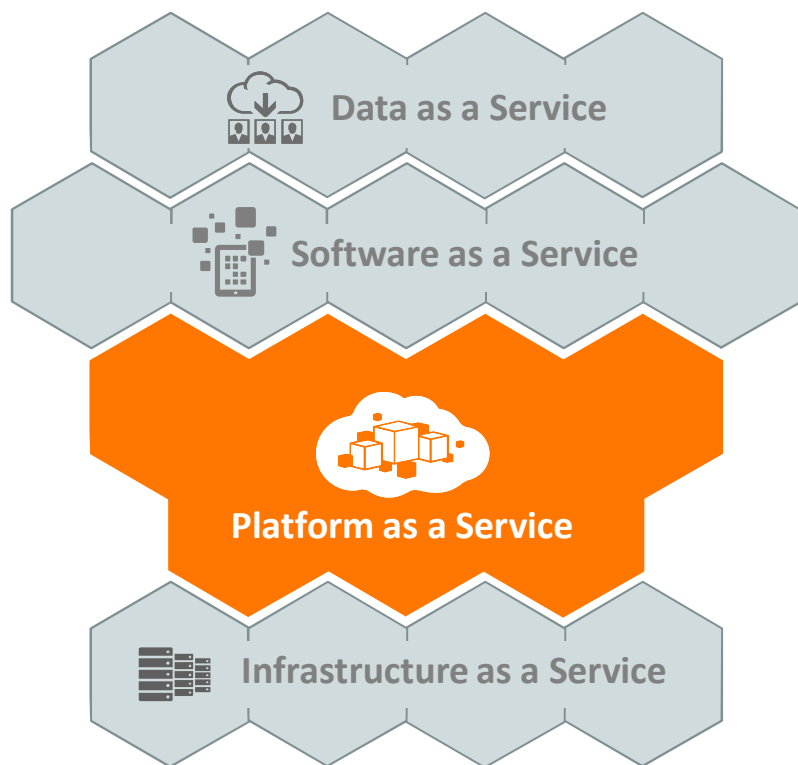


Manage Enterprise Performance
Social Net



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Oracle Cloud Platform Strategy



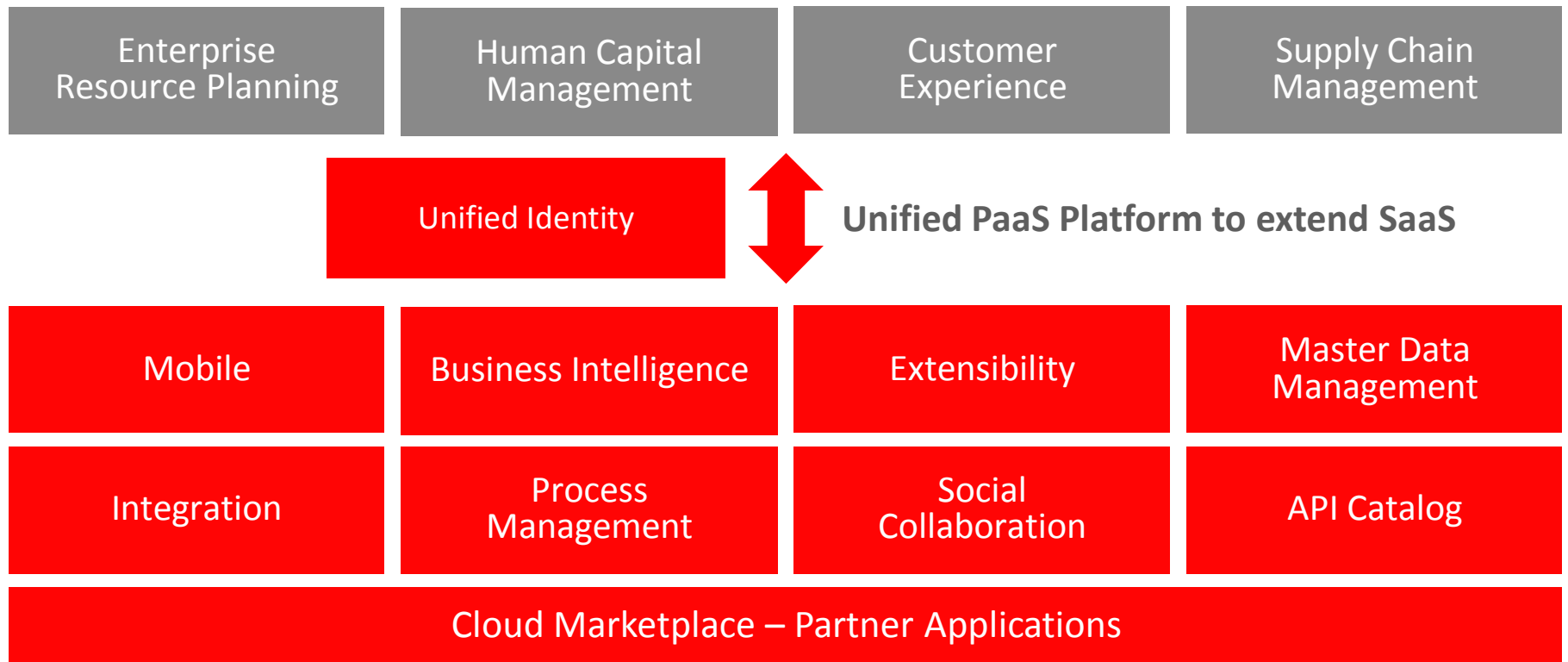
Bring Oracle's leading Database and Middleware Technology Software to customers and partners anywhere in the World through the Internet



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Oracle Cloud PaaS: Platform to extend SaaS



Oracle Cloud – Platform as a Service

Build your own apps

ORACLE

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Transforming the Development Experience with Oracle Cloud

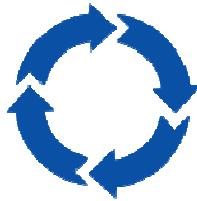
Complete and Standards-based



**Database
Services**



**Java
Services**



**Developer
Services**



**Mobile
Services**



**Messaging
Services**



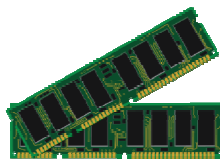
**Storage
Services**



**Identity
Services**



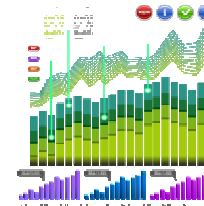
**Notification
Services**



**Caching
Services**



**Collaboration
Services**



**Analytics
Services**



**Application
Store**

Enterprise Grade Hardware, Software, and Management Infrastructure

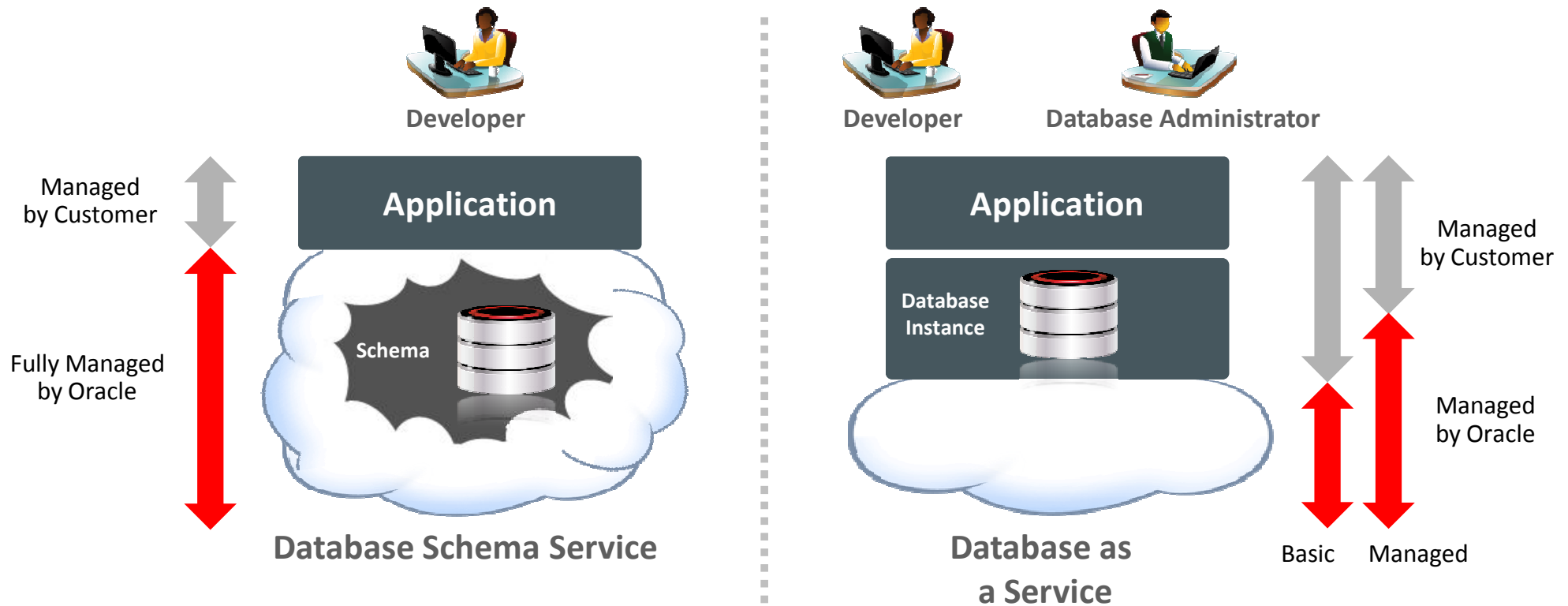
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Cloud Services for Developers

Database

Oracle Database in the Cloud



Oracle Database Cloud Service

- Connect using Oracle SQL Developer
 - Enable database port 1521 on Compute Cloud Service
 - Open an SSH Tunnel
 - Enterprise Manager
 - Cloud Control
- Access to the VM
 - Advanced administration
- Build APEX Applications
- Database Backup Cloud Service
 - automated backup



Accessing a DBCS instance using Oracle SQL Developer

- How to enable direct access
 - User identifies a particular DBCS instance
 - Takes note of which Compute instance and IP Address
 - Open network port on Compute Cloud Service
 - Enable Access Rule for dblistener
 - Connect to DB straight from SQL Developer
 - Create connection to DB over SQL*Net

Proxy Connection ☐

Hostname: 129.152.134.108

Port: 1521

☐ SID

☒ Service name: PDB1.usoracldb50495.oracledcloud.internal

Save Clear Test Connect

Oracle Compute Cloud Service

Account: usoracldb50495

Region: US001

Access Rules

26 18 Rules Enabled

Network Groups

8 Network Groups

Protocols

47

Access Rules

You can use access rules to control network access between your Compute instances and the Internet. You can create, view, update, and delete access rules.

ora_p2_dblistener

Description: ora_p2_dblistener

Status: Disabled

ora_p2_dblistener

Description: ora_p2_dblistener

Status: Enabled

Update Access Rule

Update your access rule as required. You can enable or disable this rule or modify the description. [Learn More](#)

Name: ora_p2_dblistener

Status: Disabled

Protocol: Disabled

Source: Network Groups

IP Lists: public-internet

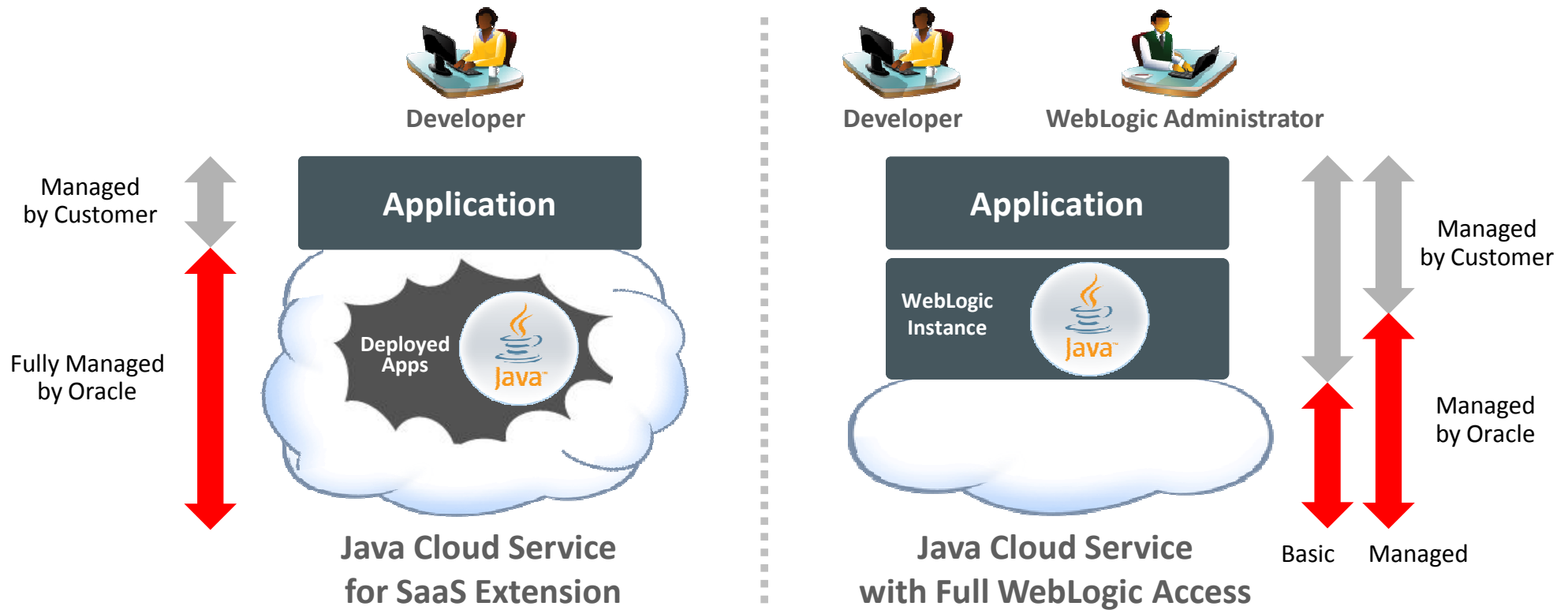
Destination: ora_db

Description:

Update Cancel

Middleware

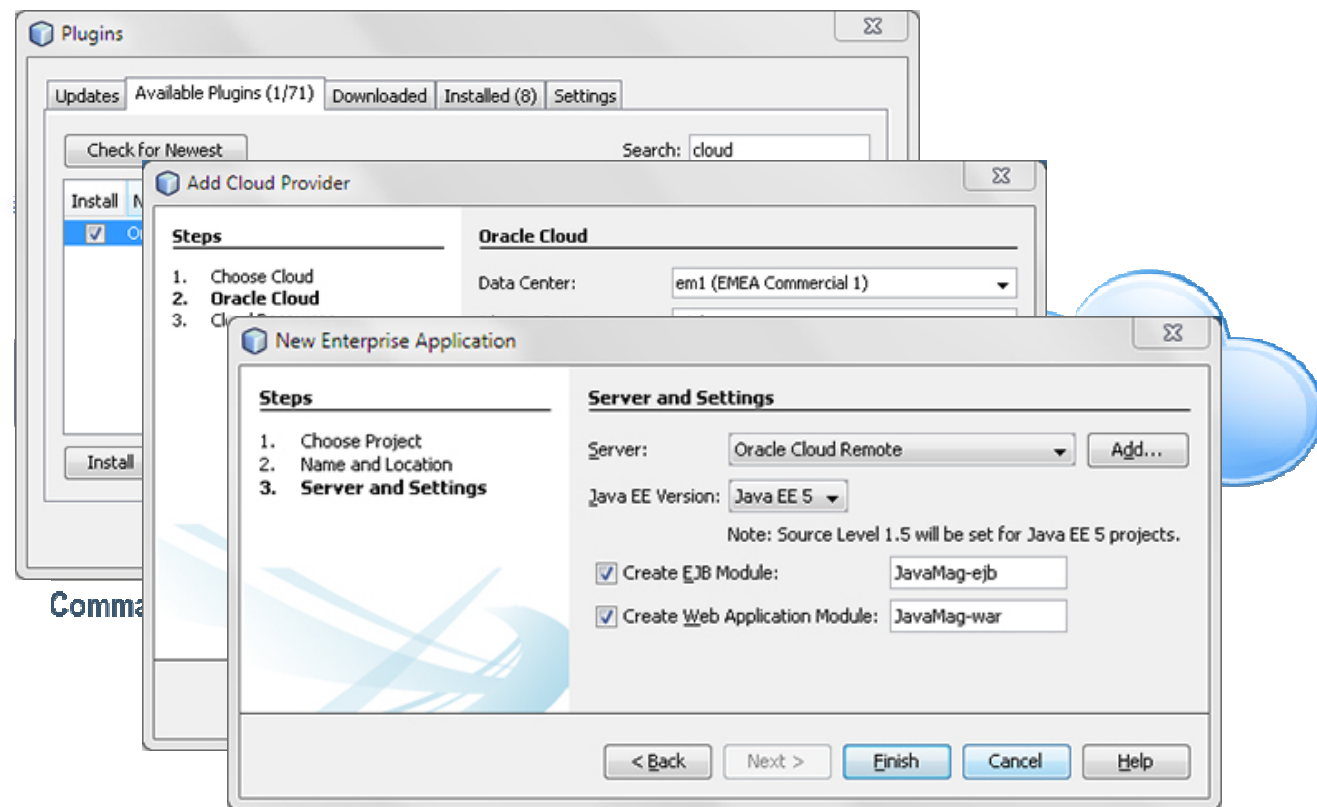
Oracle Java Cloud Service



Oracle Java Cloud Service

Cloud-ready IDEs

- Support by popular IDEs
 - Eclipse (OEPE)
 - NetBeans
 - JDeveloper
- Plugins available for main build tools
- Oracle Java Cloud Service SDK
- Deploy in the Cloud
- Log visualizer



Java SE Cloud Service

A.K.A. Application Container Cloud Service

The Java Ecosystem is too big!



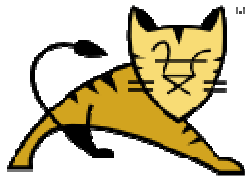
Apache



Jersey



Enterprise Edition



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Spring Boot

```
package hello;

import org.springframework.boot.*;
import org.springframework.boot.autoconfigure.*;
import org.springframework.stereotype.*;
import org.springframework.web.bind.annotation.*;

@Controller
@EnableAutoConfiguration
public class SampleController {

    @RequestMapping("/")
    @ResponseBody
    String home() {
        return "Hello World!";
    }

    public static void main(String[] args) throws Exception {
        SpringApplication.run(SampleController.class, args);
    }
}
```

SparkJava

```
import static spark.Spark.*;

public class HelloWorld {
    public static void main(String[] args) {
        get("/hello", (req, res) -> "Hello World");
    }
}
```

Java SE Cloud Service

Coming soon!

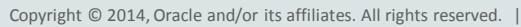
- Package and deploy runnable Java applications
`static void main(String args[])`
- Choose **Java SE 7** or **Java SE 8**
 - Advanced features: **Flight Recorder & Mission Control**
- On-Demand scale in and out
 - Easily add or remove app instances to meet demand
- One click upgrade between major/minor releases



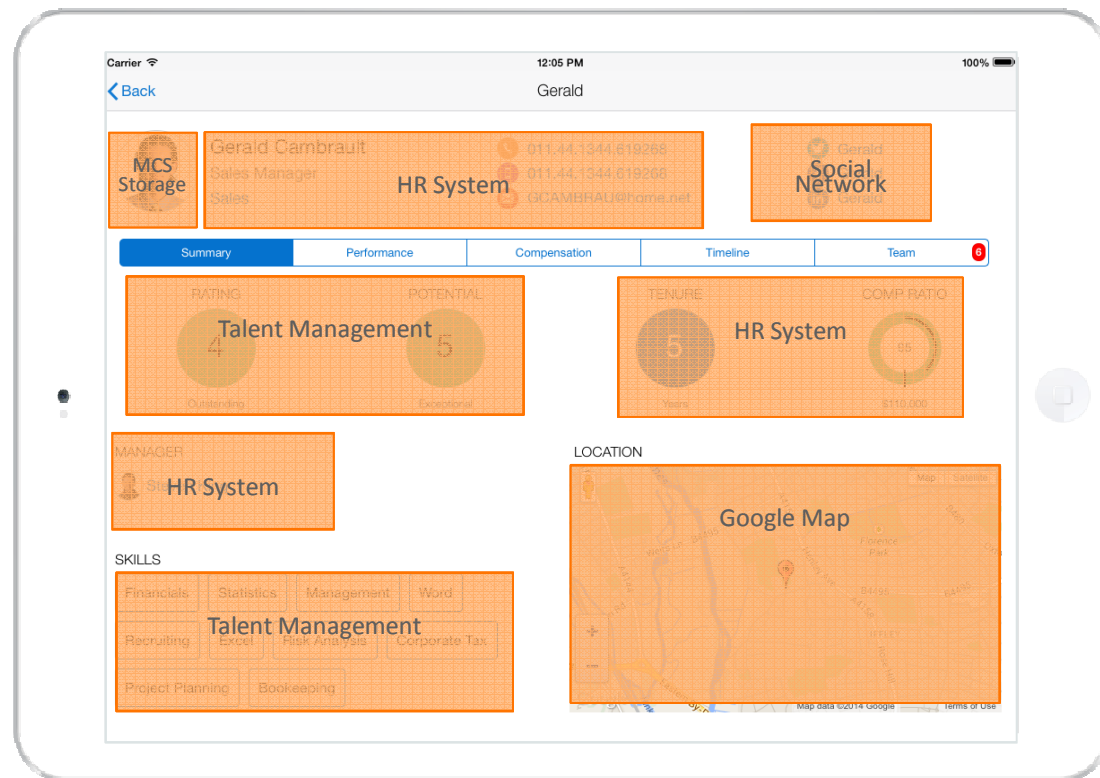
JAR

Mobile

ORACLE®



What's Going on Behind the Scene



Mobile Cloud Service

MOBILE APPLICATION
FRAMEWORK



Native



Others



Analytics



Monitoring
Management

Built-in APIs

Sync / Storage

User Mgt

Notifications

Mobile APIs

Custom API

3rd Party API

MOBILE
CLOUD SERVICE

SECURE

Users

Objs

Data Shaping

Custom Logic

Orchestrate



CLOUD



ON-PREMISE
PACKAGED
APPLICATIONS



CUSTOM
APPLICATIONS

Connectors

Oracle Cloud
Public Cloud
On-premise

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Integration



if this then that

```

/bin/bash 104x50
var Nasven = new (function () {
var JString = java.type("java.lang.String");
var Collectors = java.type("java.util.stream.Collectors");
var Arrays = java.type("java.util.Arrays");
var Files = java.type("java.nio.file.Files");
var Paths = java.type("java.nio.file.Paths");
var System = java.type("java.lang.System");
var Thread = java.type("java.lang.Thread");

function checkPathExists(path) {
    if (Files.isReadable(path) === false) {
        print("ERROR: File '${path}' cannot be found or is not readable.");
        exit();
    }
}

function getAppDef(somePath) {
    var packageFile = Paths.get(somePath).toAbsolutePath();
    if (packageFile.toFile().isFile() === false) {
        packageFile = Paths.get(somePath, 'package.json').toAbsolutePath();
    }
    var parentPath = packageFile.getParent();
    checkPathExists(packageFile);
    $ENV.PWD = parentPath.toString();
    var appdef = loadAppDef(packageFile);

    var nsnScriptPath = Paths.get(parentPath, appdef.nsn).toAbsolutePath();
    checkPathExists(nsnScriptPath);
    appdef.nsnScriptPath = nsnScriptPath;
    return appdef;
}

function loadAppDef(packageFile) {
    var appdef = JSON.parse(new JString(Files.readAllBytes(packageFile)));
    if (typeof appdef === 'undefined') {
        print("ERROR: Package Definition 'package.json' could not be found.");
        exit();
    } else if (typeof appdef.nsn === 'undefined' || appdef.nsn === 'index') {
        appdef.nsn = 'index.js';
    } else if (appdef.nsn === '') {
        print("ERROR: Your app ${ARGV[0]} does not contain a valid application.");
        exit();
    }
    return appdef;
}

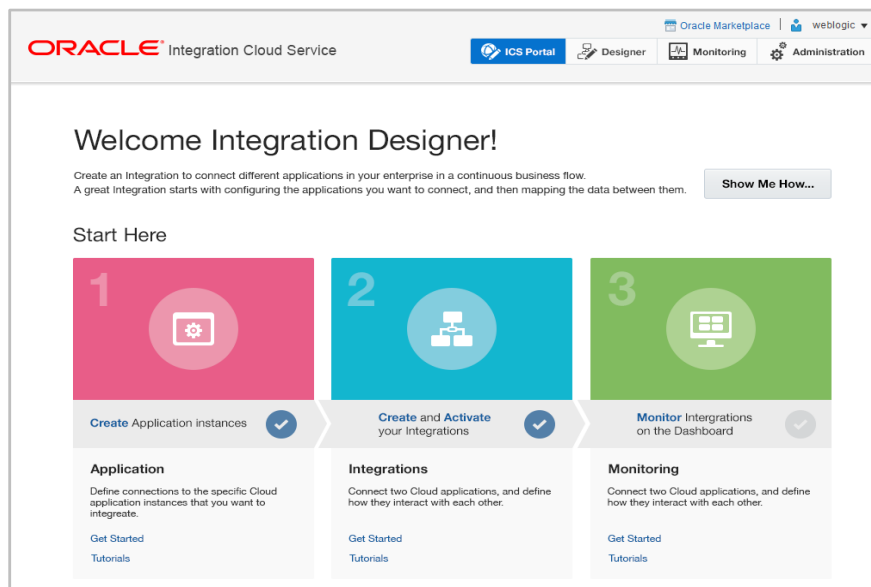
function buildAsspath(appdef) {
    var classpath = '';
    if (typeof appdef.dependencies !== 'undefined') {

```

77.5

14%

Oracle Integration Cloud Service



Key Features

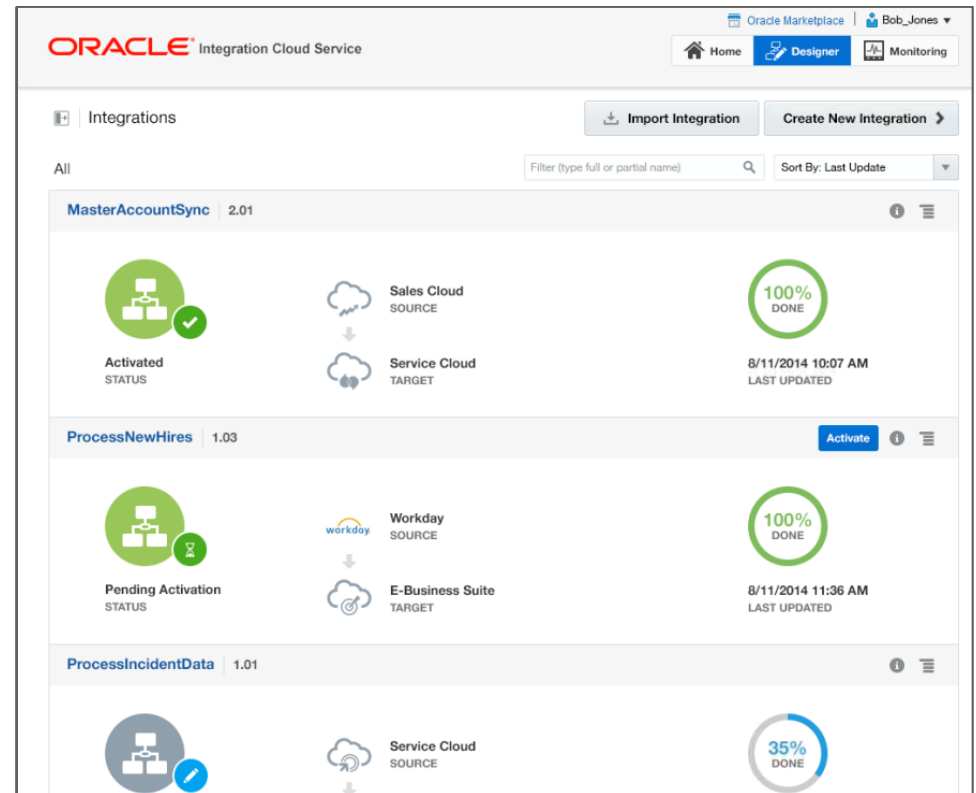
- Simplified: Web based, Point & Click integration experience
- Highly Visible: Rich monitoring & error management
- Lifecycle : Support both on-premise, cloud lifecycle tools
- Highly Available: Data Guard, RAC Cluster
- Managed: Oracle Backs Up, Patches, Upgrades
- Fully portable: On-premise to Cloud

Benefits

- Pre-integrated SaaS, PaaS Auto-Association
- Integration Pre-buils: Customize, Activate
- Rapid Mapping using Recommendations
- Rich Connectivity with Cloud & On-premise Connectors
- Secure On-premise integration using lightweight Agent
- Rapid and fully automated provisioning

Simplify Integration to Oracle SaaS

- **Auto-Associate** – Pre-loaded with your existing Oracle SaaS subscriptions.
- **Version Aware** – No need to continually update for new versions of Oracle applications
- **Built-in Security** – Leverage existing built-in Oracle security
- **Monitor Dashboards** – Intuitive visibility into your business out-of-the-box



Exit Canvas

Acme Sales Cloud Instance 1



request

Exit Mapper

Map: process To Create

Save

View Filter Detach Map

Source Find...

Mappings

View Filter Detach

Recommend Test

Target Find...

Mapping

- <> process
- <> Account
 - <> PartyId
 - <> PartyNumber
 - <> SourceSystem
 - <> SourceSystemRefer
 - <> OrganizationName
 - <> UniqueNameSuffix
 - <> PartyUniqueName
 - <> Type
 - <> OwnerPartyId
 - <> OwnerPartyNumber
 - <> OwnerEmailAddress
 - <> OwnerName
 - <> PrimaryContactParty
 - <> PrimaryContactParty
 - <> PrimaryContactSour
 - <> PrimaryContactSour
 - <> PrimaryContactNam
 - <> PrimaryContactEma
 - <> PrimaryContactPho
 - <> ExistingCustomerFl
 - <> ExistingCustomerFl
 - <> NamedFlag
 - <> LastAssignmentDate
 - <> LastAssignmentDate
 - <> AssignmentException
 - <> SalesProfileStatus
 - <> IndustryCodeType
 - <> IndustryCode

Recommendations for: /Create

Target	Mapping Recommendation	* All Sourced By	Relevance	* All
<> Create				
<> Organization				
<> ID				
<> id	PartyId		★★★★★	
<> LookupName	OrganizationName		★★★★★	
<> Addresses				
<> TypedAddressList				
<> City	City		★★★★★	
<> Country	Country		★★★★★	
<> Name	Country		★★★★★	
<> PostalCode	PostalCode		★★★★★	
<> StateOrProvince				

Total Recommendations Found: 11 Recommendations Selected: 11

OK Cancel

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slc04ack.us.oracle.com:7001/ics/faces/global#

Integration Create New Integration

Sort By: Last Update Filter By: None

NEW

This integration shows how to retrieve incidents from Rightnow for an account in Sales Cloud.

This integration demonstrates creating organization in Service Cloud for Account Creation in Sales Cloud. It also shows how to do correlation.

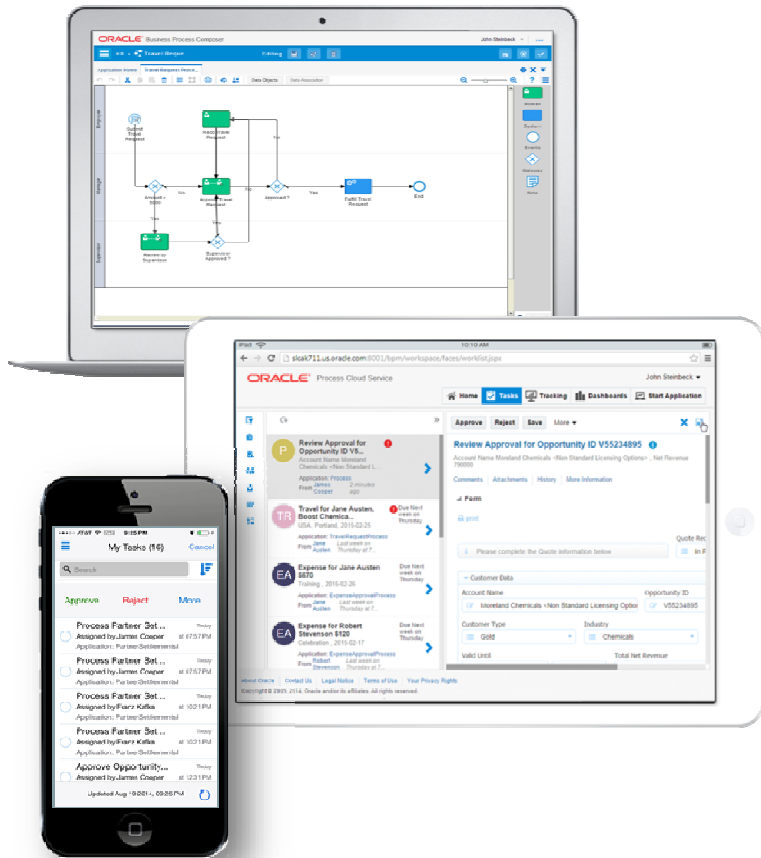
This is a demo integration showing Get operation (CRUD type) from Rightnow to retrieve organization based on id passed.

This is a sample integration using SOAP adapter to call external service for adding numbers and send response to caller as a soap response.

This integration demonstrates how to subscribe to ICS Messaging Service and send the received message to Rightnow.

This integration shows how to receive a notification

Oracle Process Cloud Service



Key Features

- **Business-Friendly Application Automation:** Zero-coding web based, declarative process design, and responsive web forms.
- **Business Visibility, Agility & Control:** Monitoring of process and business health; Root-cause analysis and trend analysis, and change process on the fly.
- **Mobile Workforce Productivity:** Native mobile application for enabling business users to securely and efficiently interact with processes.

Benefits

- **Rapid Implementation**
- **Faster Adoption**
- **Improved Workforce Productivity**

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ALM in the Cloud

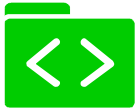
Application Lifecycle Management

Oracle Developer Cloud Service

Automate your Application Lifecycle Management (ALM)



Developer



Source Control
Management



Issue
Tracking



Hudson
Continuous
Integration



Wiki
Collaboration

- **Develop** – Development platform securely hosted in the Cloud
- **Collaborate** – Integrated tools to manage and track tasks, builds, and documentation
- **Deploy** – Automatic deployment to Oracle Java Cloud Service or your local infrastructure

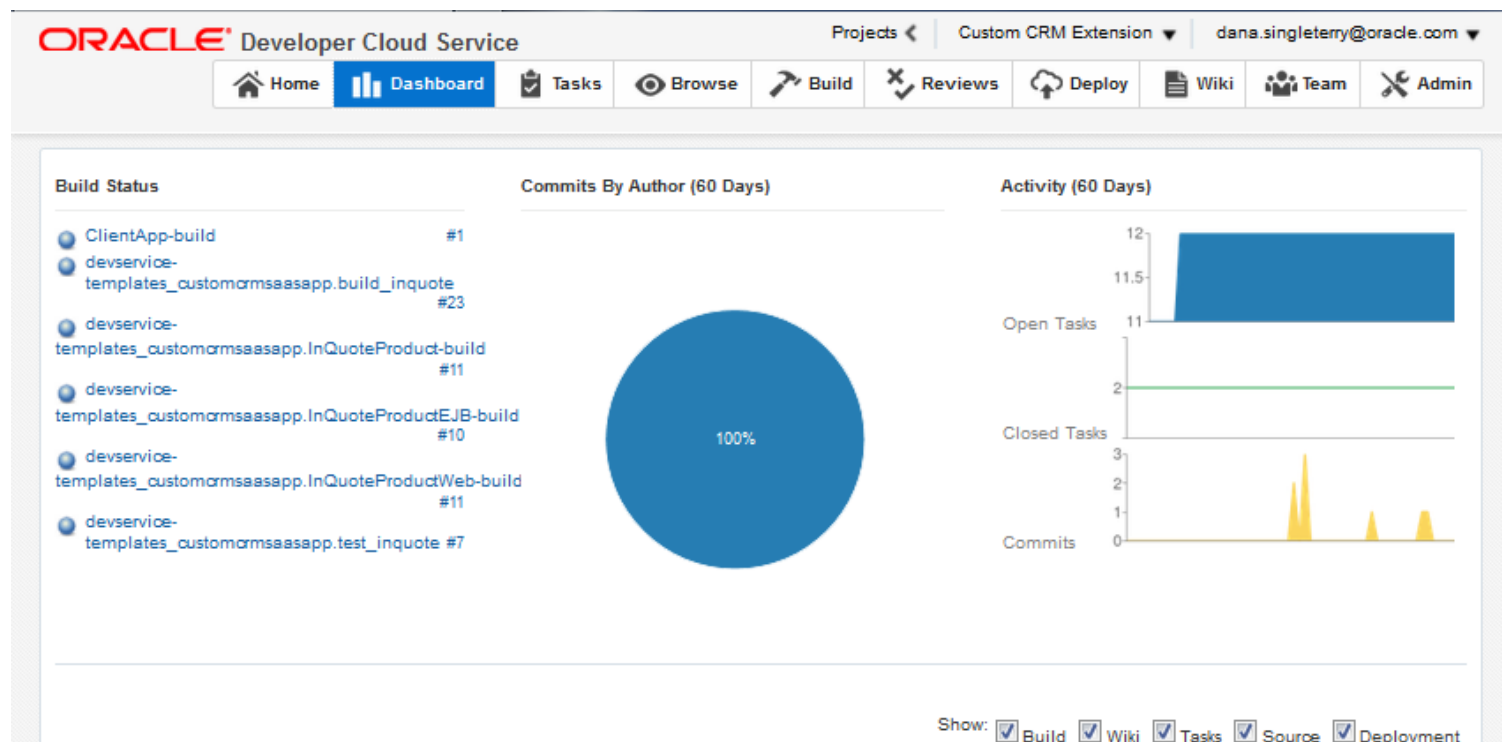
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DCS Web Dashboard

Project Dashboard

- Status of builds
- Commits by team
- Visual breakdown of activity
 - Open Tasks
 - Closed Tasks
 - Commits



Automated Project Build

ORACLE Developer Cloud Service

daytrader

Home Code Merge Requests Issues Build Deploy Wiki Administration

Jobs Overview Daytrader_Build

Build Now Configure Disable Delete

Description

No description available

Permalinks

Last | Successful | Completed | Stable

Notifications

On Off CC me

Build History

Status	Build	Time	Duration	Console
✓	#1	23 minutes ago	12 m 25 s	

Artifacts of Last Successful Build

web-3.0.0.war

(all files in zip)

Build Trend

Build duration in seconds

Build number

ORACLE Developer Cloud Service

daytrader

Home Code Merge Requests Issues Build Deploy Wiki Administration

Jobs Overview Daytrader_Build

Build Now Configure Disable Delete

Description

No description available

Artifacts of Last Successful Build

No Artifacts available

Notifications

On Off CC me

Build History

Status	Build	Time	Duration	Console
No data to display.				

Build Trend

Backup/Restore Clean State for Testing Env Repeatability

ORACLE Java Cloud Service

Services > daytraderWLS

daytraderWLS (Oracle Java Cloud Service)

WebLogic Server Version: 12.1.3.0.3
Description: Test Environment for Day Trader Application

Overview

N/A
Average response time

1
Nodes

Administration

0
Patches available

N/A
Last successful backup

Backup Patching Load Balancer

Incremental backup daily at 7:50:00 PM UTC
(Full backup every Wednesday at 7:50:00 PM UTC)

As of Jul 1, 2015 2:35:27 PM UTC

Configure Backups Back Up Now

Storage Cloud Container Used: 0.0MB Backup Volume Used: 0.0MB Backup Volume Percent Used: N/A

Available Backups (Last 7 Days)

6/24/2015 Search to Date

No backups available.

Restore History

Last Successful Backup

Storage Cloud

Available Backups

6/24/2015

Backup ID: 1435765483434

Job ID: 101847

Backup Start Date: Jul 1, 2015 3:44:43 PM UTC

Backup Complete Date: Jul 1, 2015 3:45:45 PM UTC

Expiration Date: Jul 31, 2015 3:44:43 PM UTC

Type of Backup: Incremental

Location: Disk

Size: 3.7MB

Notes: Clean State Backup

Available Until: Jul 31, 2015 3:44:43 PM UTC

Location: Disk

```
bash -ex \  
daytrader-master/restore.sh \  
<opc-username> <opc-password> \  
<identity-domain> <jcs-instance-name> <backup-id>
```

* **restore.sh**: sample script using OPC REST API to restore existing JCS backup

Enabling Deployment in DevCS

ORACLE Developer Cloud Service

daytrader

HomeCodeMerge RequestsIssuesBuildDeployWikiAdministration

New Deployment Configuration

SaveCancel

* Configuration NameDeploy2daytraderWLS

* Application Namedaytrader

* Java ServiceSelect a Java Service...

Type

☐ On Demand

☒ Automatic

☒ Deploy stable builds only

* JobDaytrader_Build

* Artifactdaytrader-master/javaee6/modules/web/target/web-3.0.0.war

ORACLE Developer Cloud Service

siva.krishna@oracle.com

daytrader

Search Deployments

HomeCodeMerge RequestsIssuesBuildDeployWikiAdministration



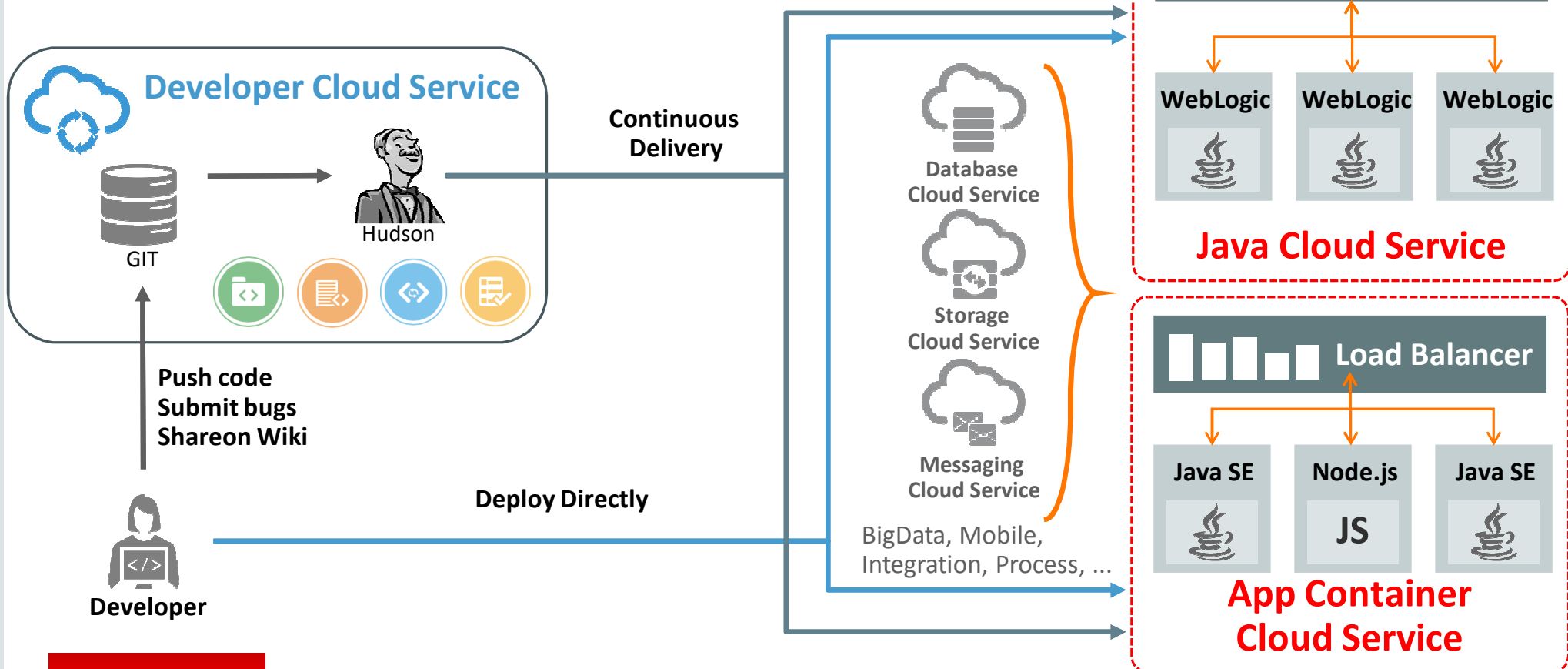
You currently have no deployment configurations.

Define a new configuration plan for deploying an application in your project to your Java Cloud Service instance.

+ New Configuration

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Integrated Cloud Services for a DevOps Culture



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Docker Container Service



Q&A

Integrated Cloud

Applications & Platform Services

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