JavaCro'16

and more!

Continuous delivery of Java applications
using Oracle Cloud Platform Services

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Principal Sales Consultant
Oracle Cloud Platform

May, 2016

ORACLE

JavaCro'16

Safe Harbor Statement

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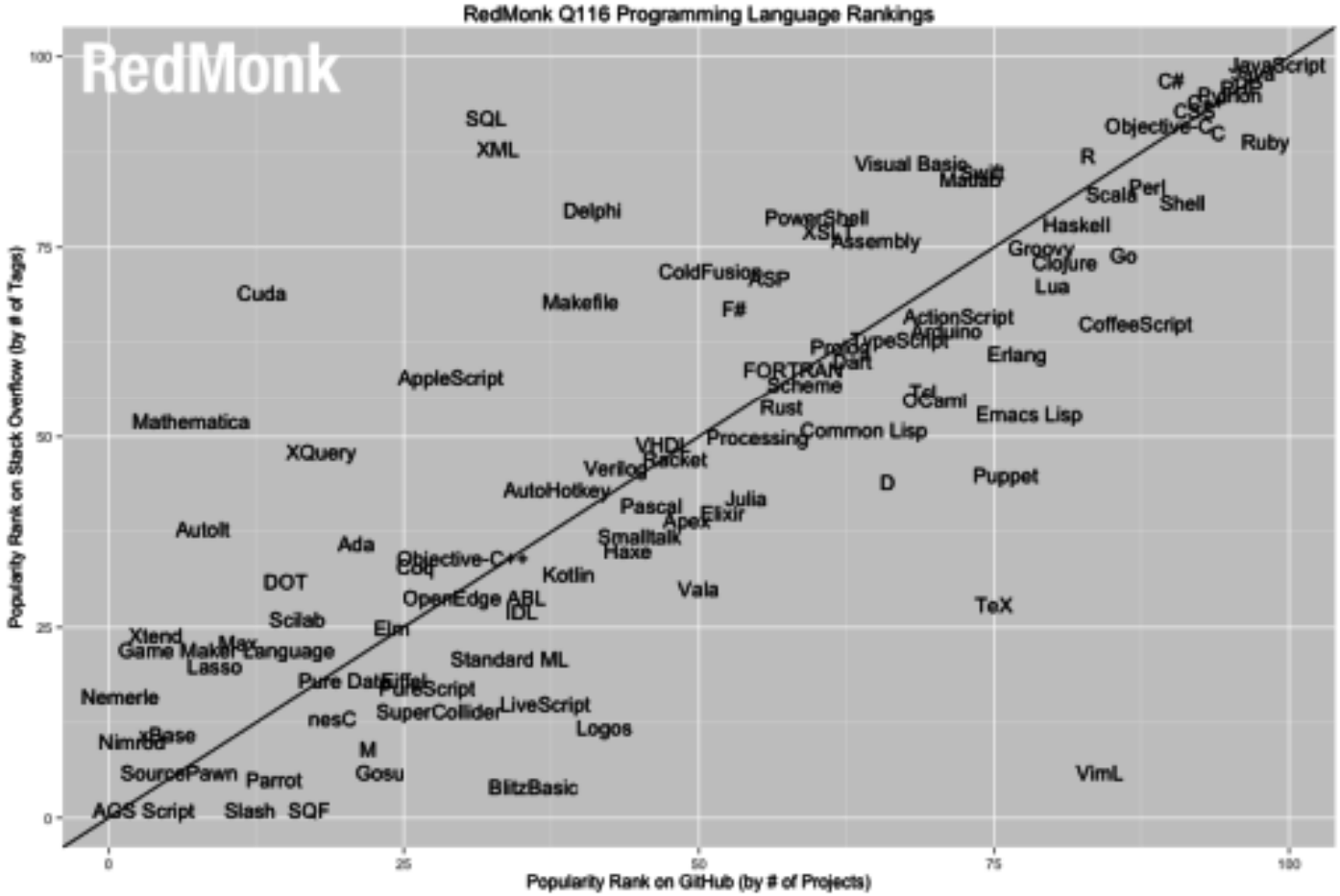
Polyglot Programming

Many tools



1 JavaScript
2 Java
3 PHP
4 Python
5 C#
5 C++
5 Ruby
8 CSS
9 C
10 Objective-C
11 Shell
12 Perl
13 R
14 Scala
15 Go
15 Haskell
17 Swift
18 Matlab
19 Clojure
19 Groovy
19 Visual Basic

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Demand for DevOps Skills

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Microservices
Cattle vs Pets

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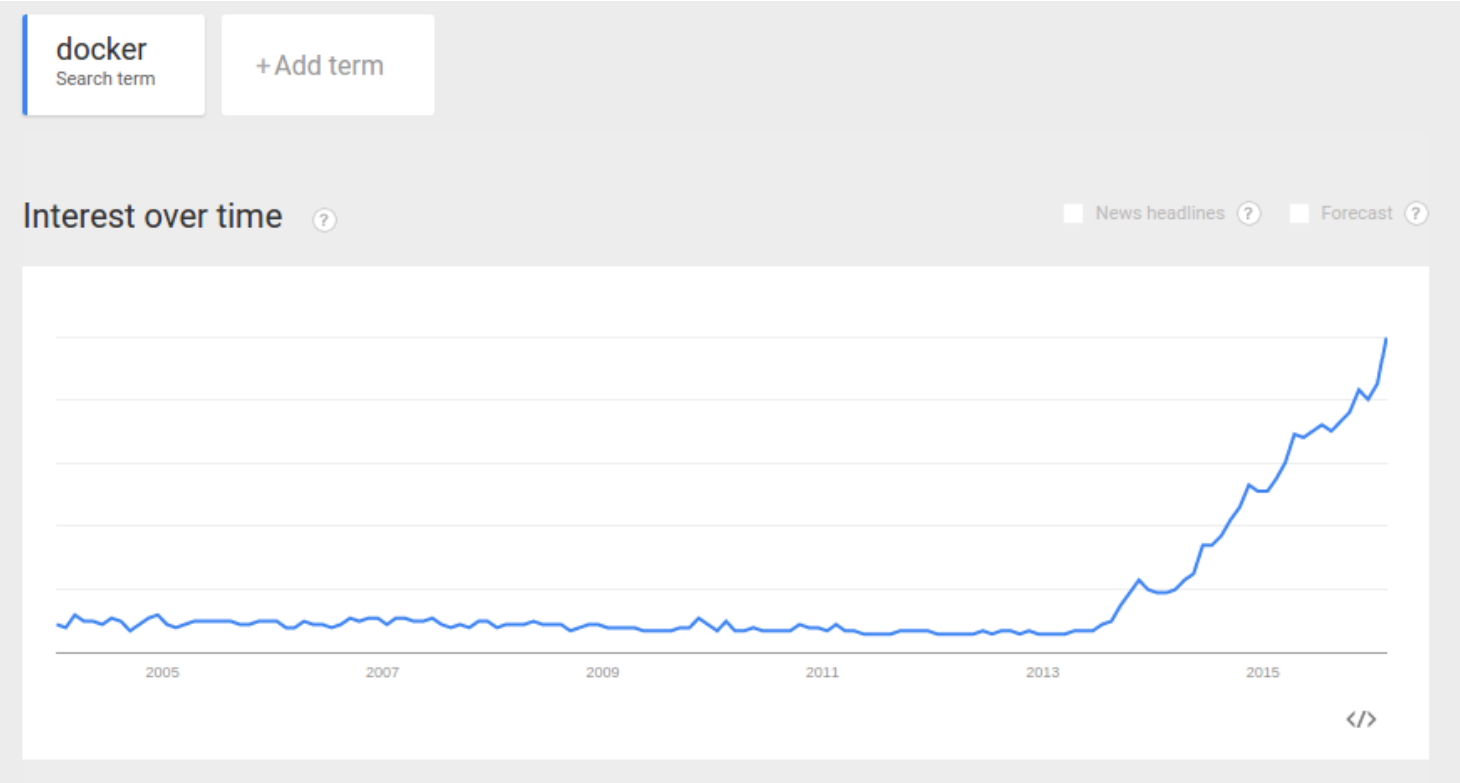
Fast Growing Interest

- Community
  - General buzz
  - 700+ contributors
  - Red Hat, IBM, Pivotal
  - Microsoft, Google
  - Oracle
- Agile customers
  - Fast adoption
- Useful for DevOps
  - Easy provisioning



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Open Source is the new Normal

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JavaCro'16

Oracle Application Development & Deployment Benefits

Instant setup

Complete automation

Multiple Programming Languages

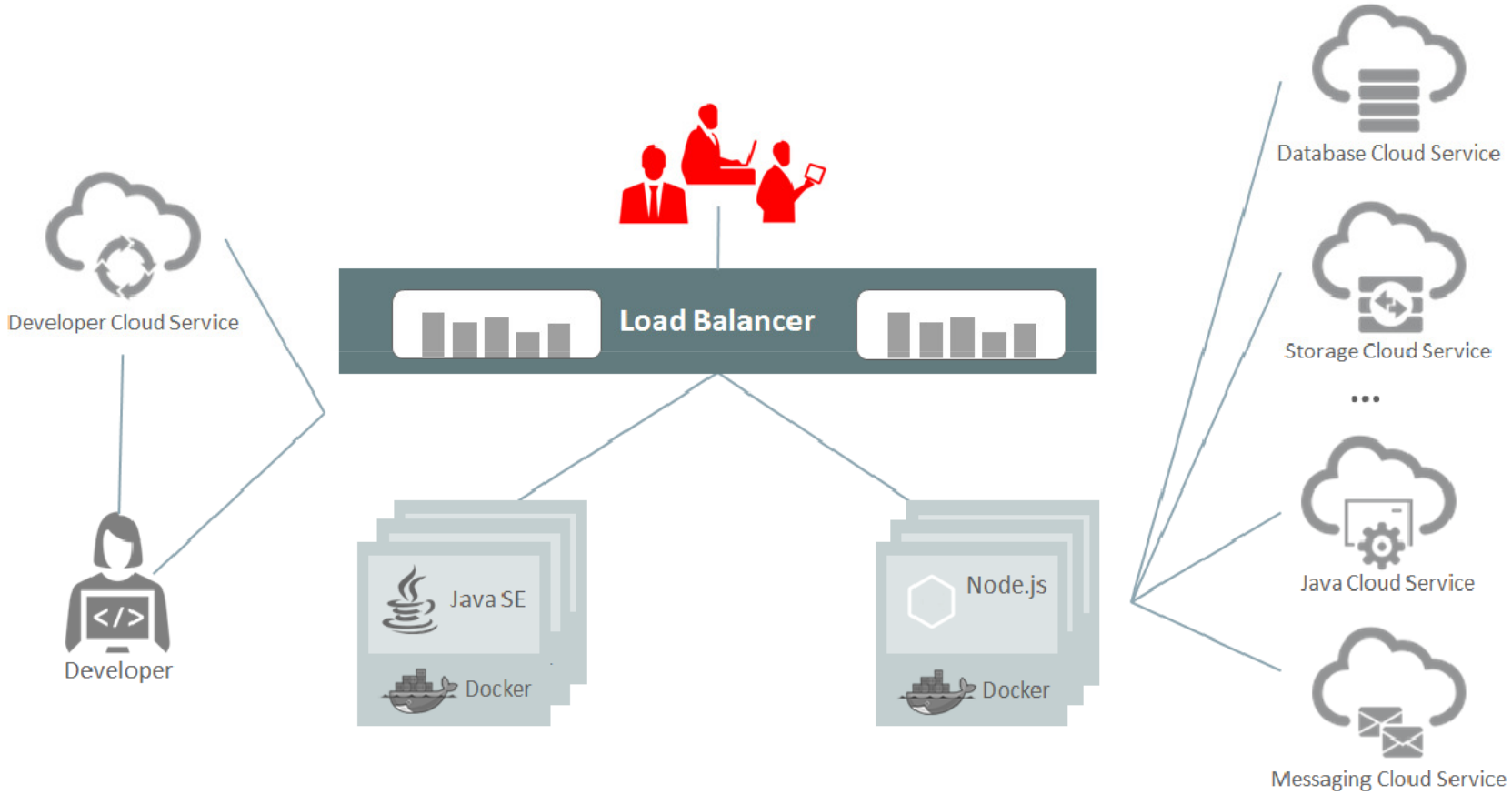
Continuous Delivery

Any workload with IaaS

ORACLE

Oracle Application Container Cloud Service

A modern platform for lightweight application development



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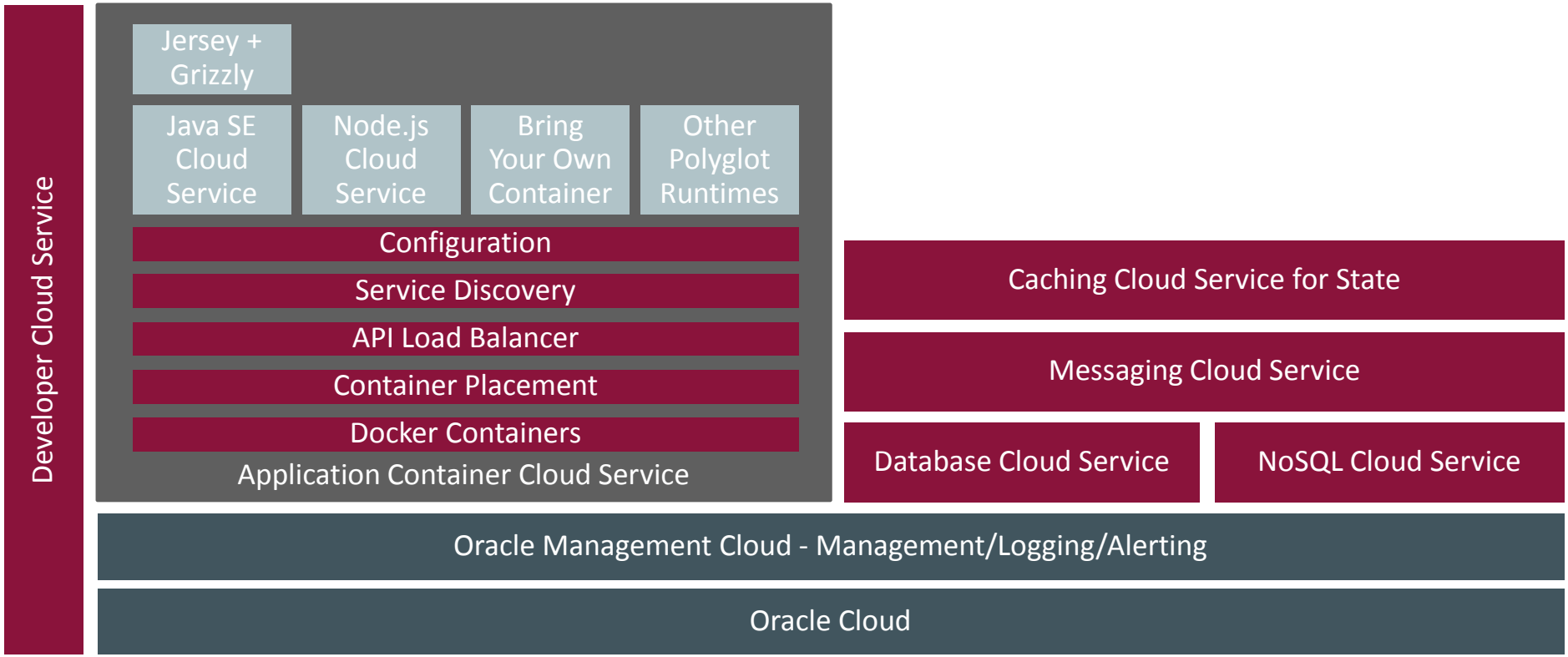
Using Application Container Cloud Service For Microservices



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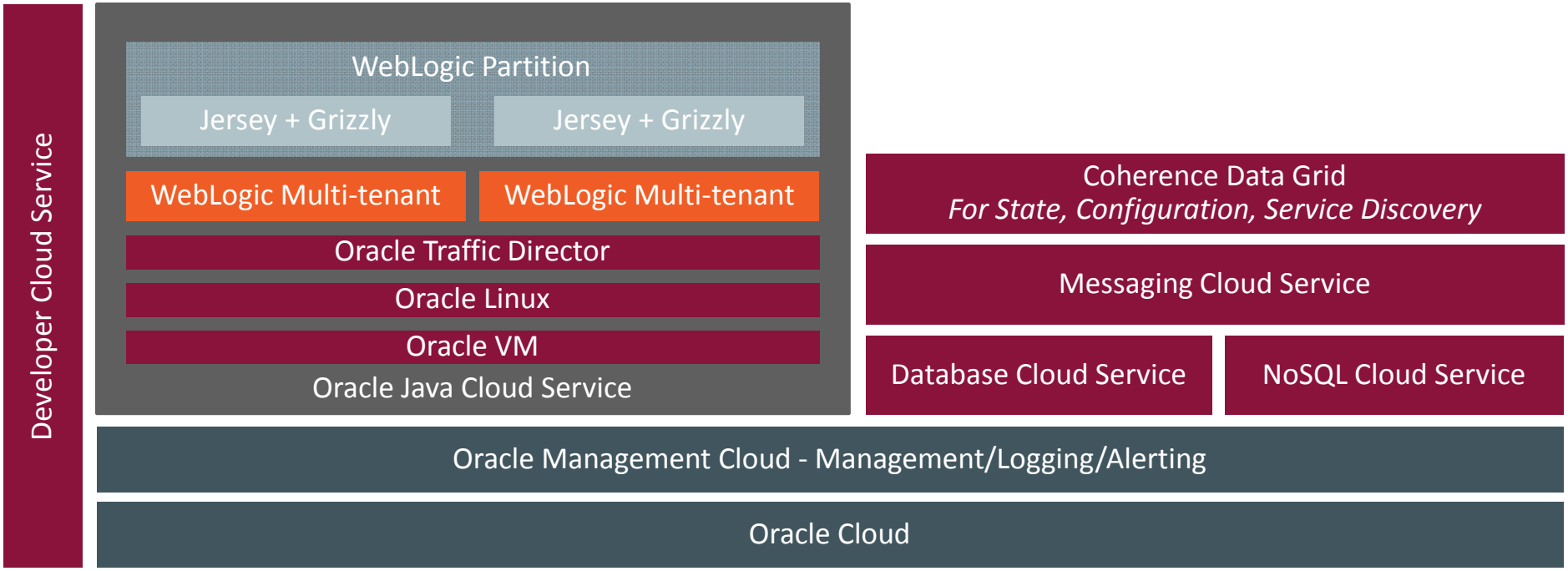
Using WebLogic + Java EE For Microservices

A proven, enterprise-grade platform for application development



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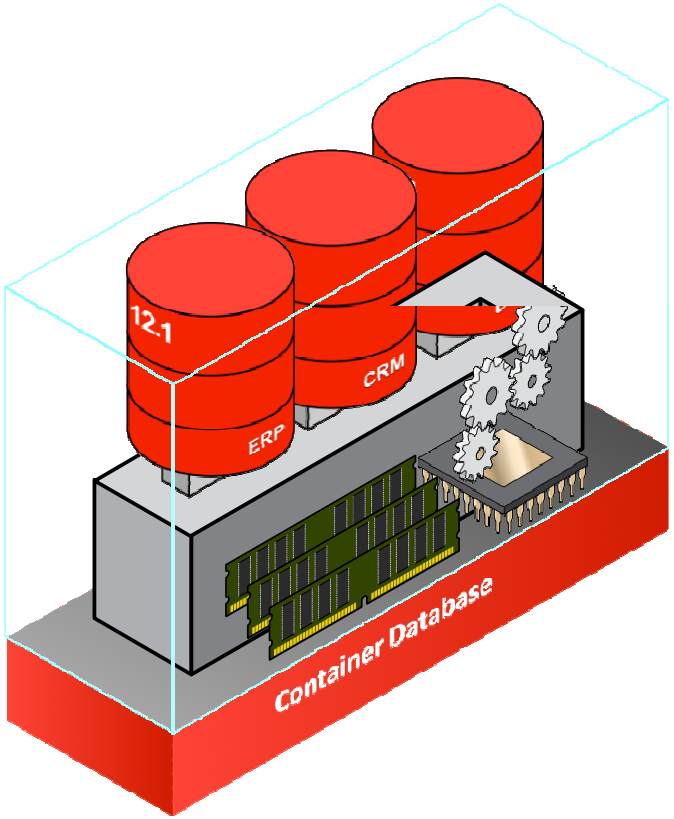
Pluggable Databases

One Container Database per application, one Container Database per microservice



- Container Database
  - Multi-tenant database that includes zero, one or many pluggable databases
  - Upgrades, etc are performed against container
- Pluggable Database
  - A full database to the client except that behind the scenes it doesn't have its own controlfiles, redo logs, undo, etc
  - Just a collection of datafiles and tempfiles to handle its own objects, including its own data dictionary
  - Can easily move Pluggable Databases from one container to another

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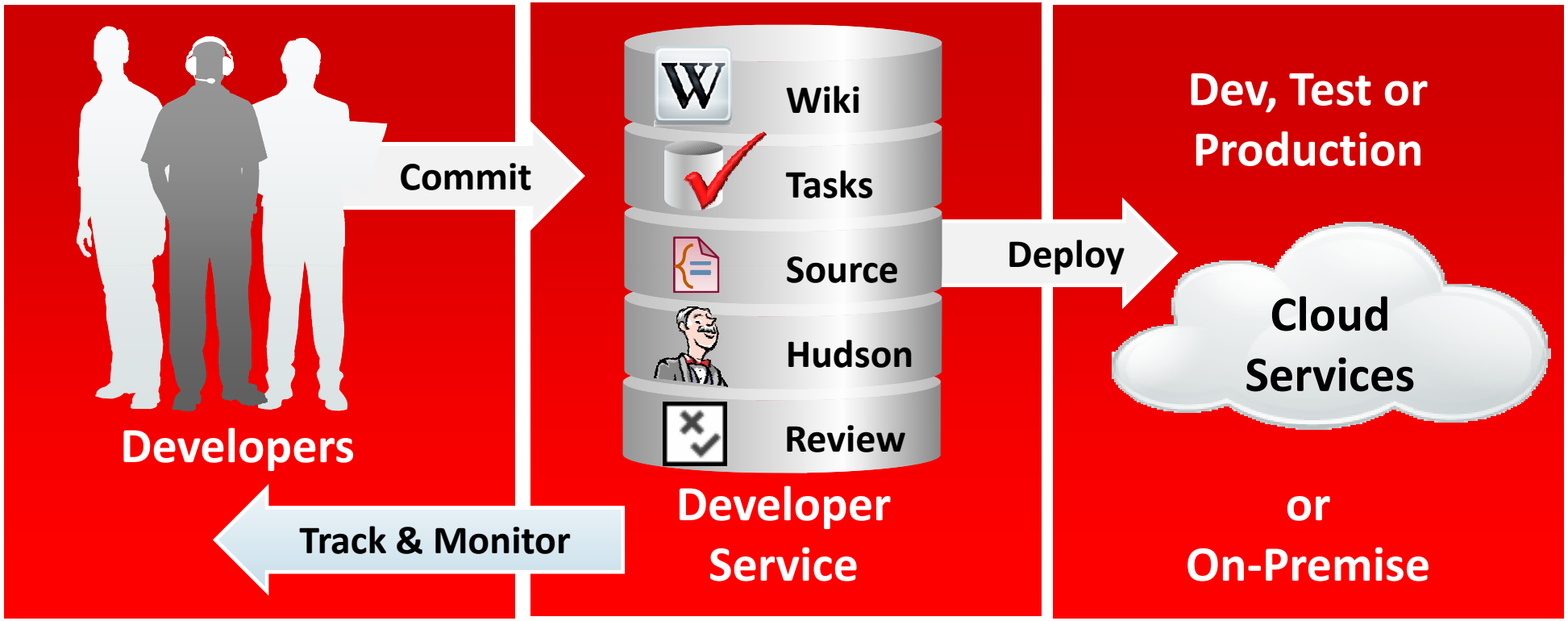
Oracle Developer Cloud Service

Bringing It All Together



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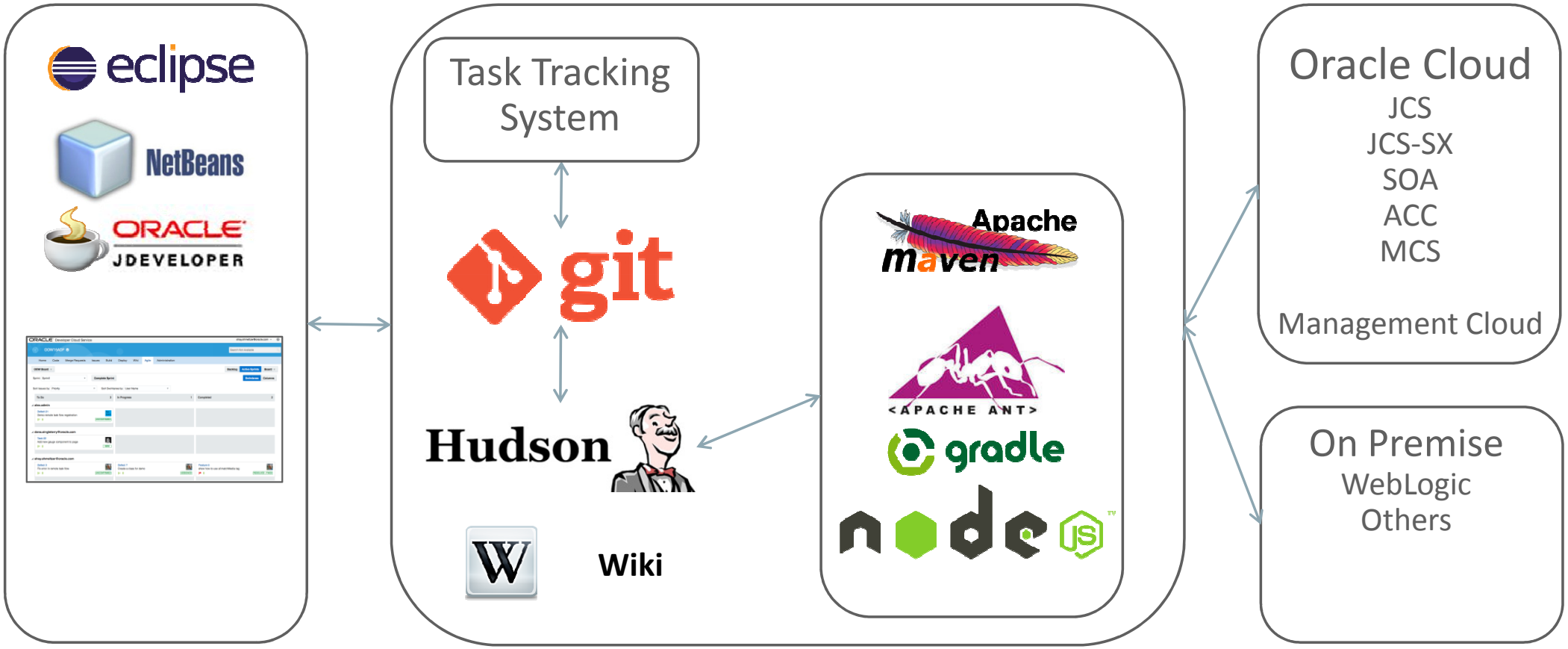
Oracle Developer Cloud Service



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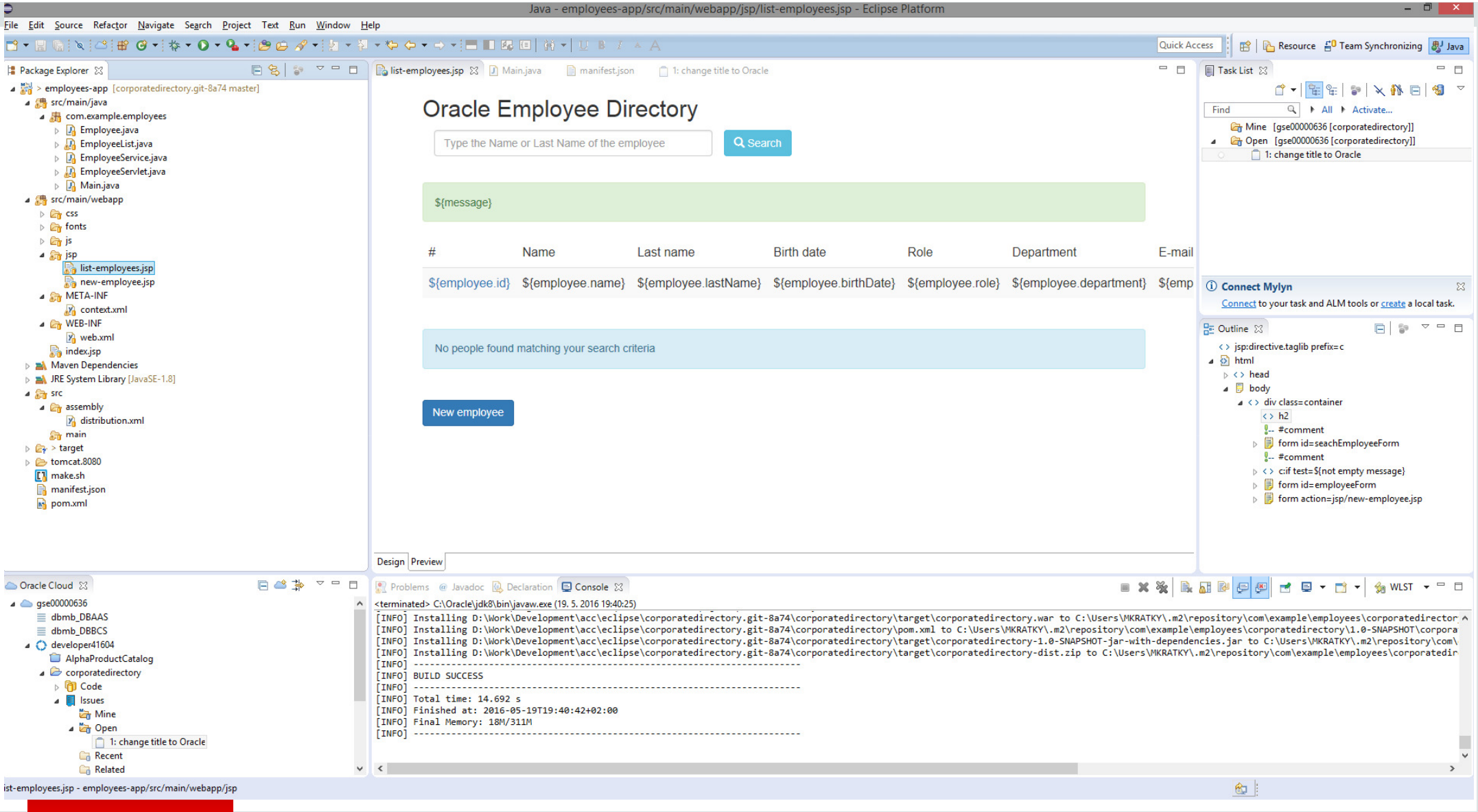

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ORACLE Developer Cloud Service

cloud.admin

corporatedirectory

Search Not Available

Home | Code | Snippets | Merge Requests | Issues | Build | Deploy | Wiki | Agile | Administration

Jobs Overview | Sample_Maven_Build

Build Now | Configure | Disable | Delete

Console | Changes | Git Logs | Audit

Description

No description available

Permalinks

Last | Successful | Failed | Completed | Unsuccessful | Stable

Notifications

On | Off

CC Me

Build History

New Build 67%

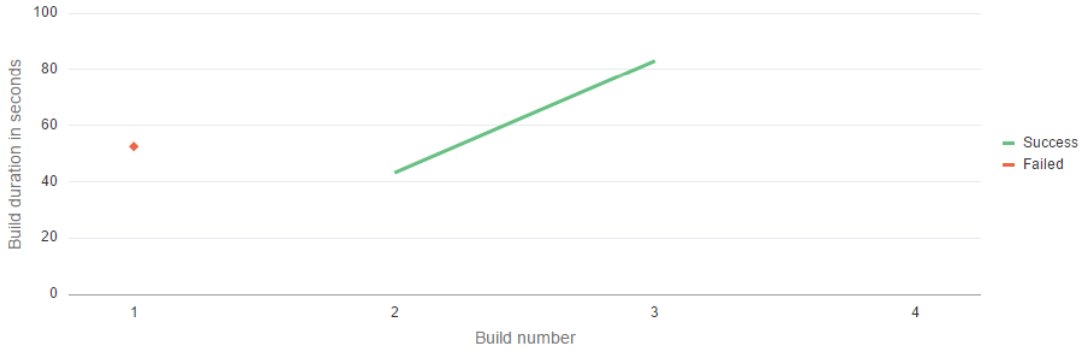
Status	Build	Time	Duration	Console
	#4	Just now	N/A	
	#3	Wednesday at 8:49 PM +0200	1 min 23 s	
	#2	Wednesday at 8:35 PM +0200	43 s 105 ms	
	#1	Wednesday at 8:33 PM +0200	52 s 438 ms	

Artifacts of Last Successful Build

corporatedirectory-dist.zip

(all files in zip)

Build Trend



Test Result Trend

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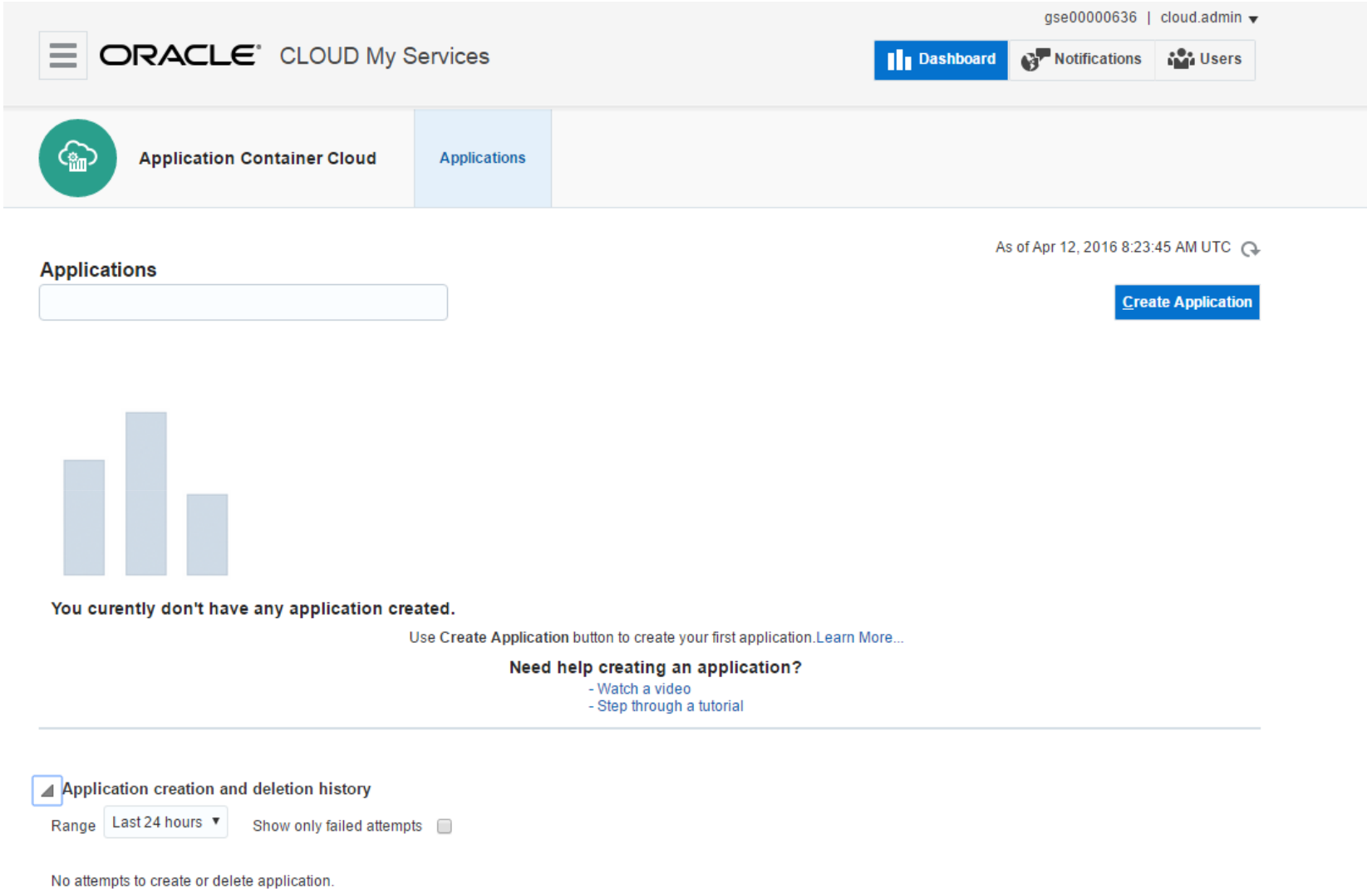

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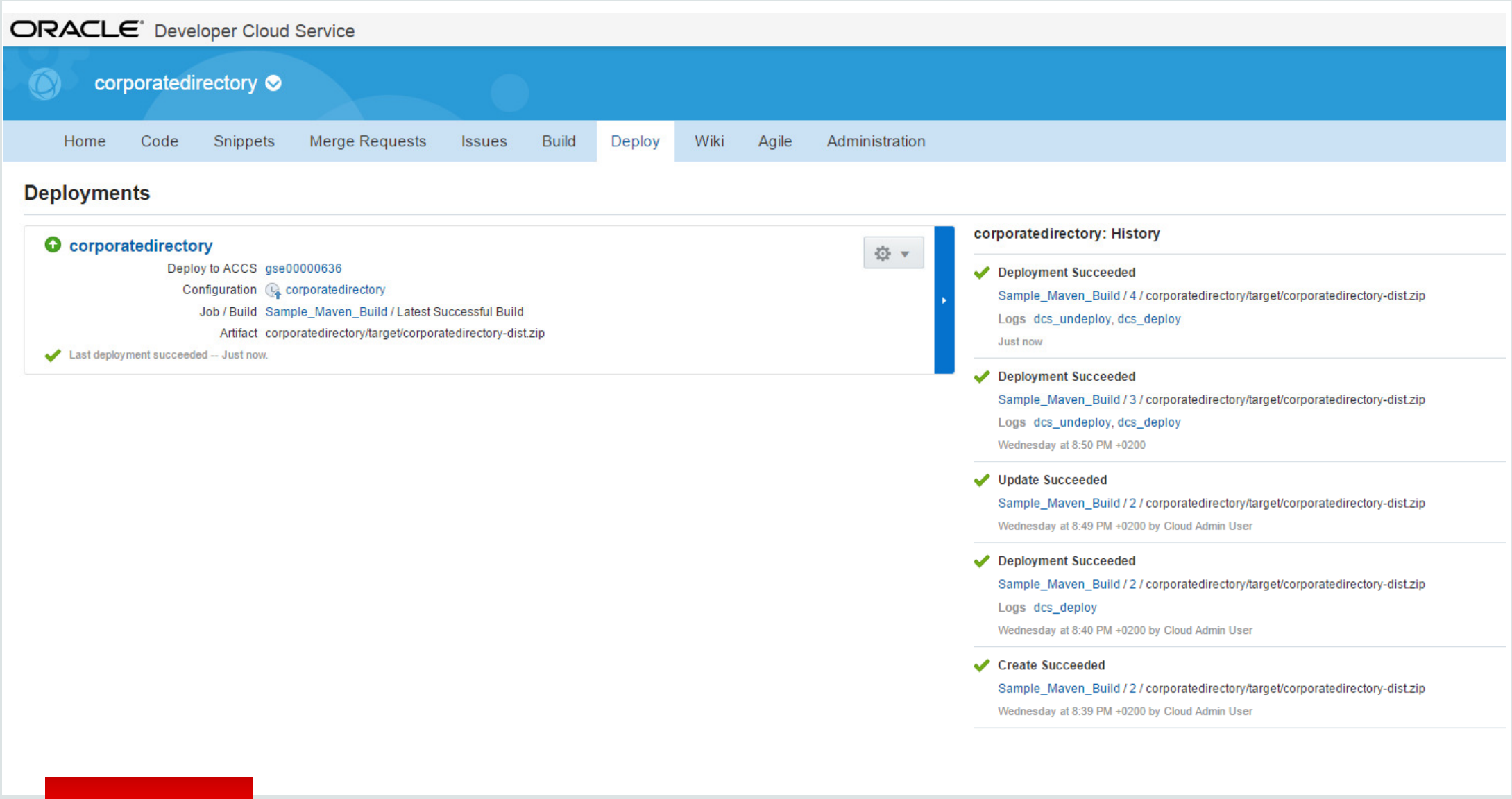

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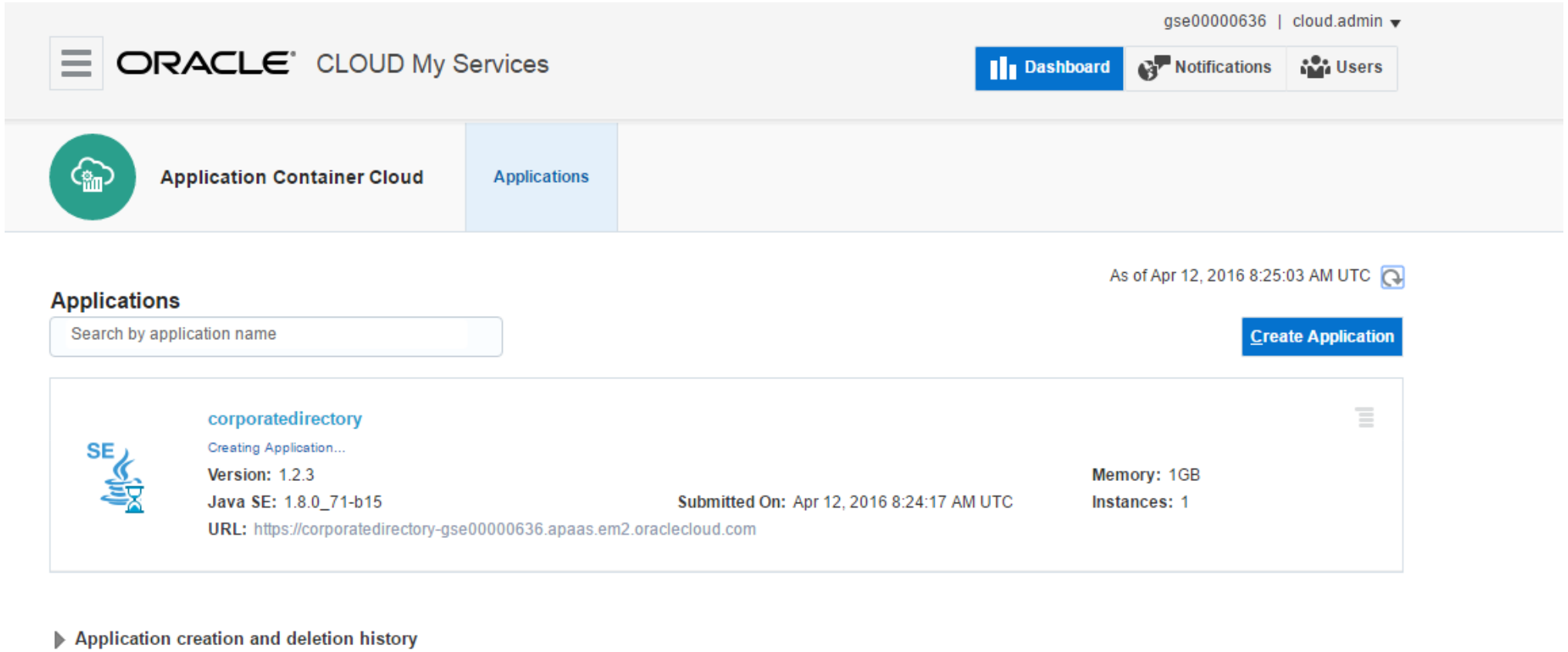

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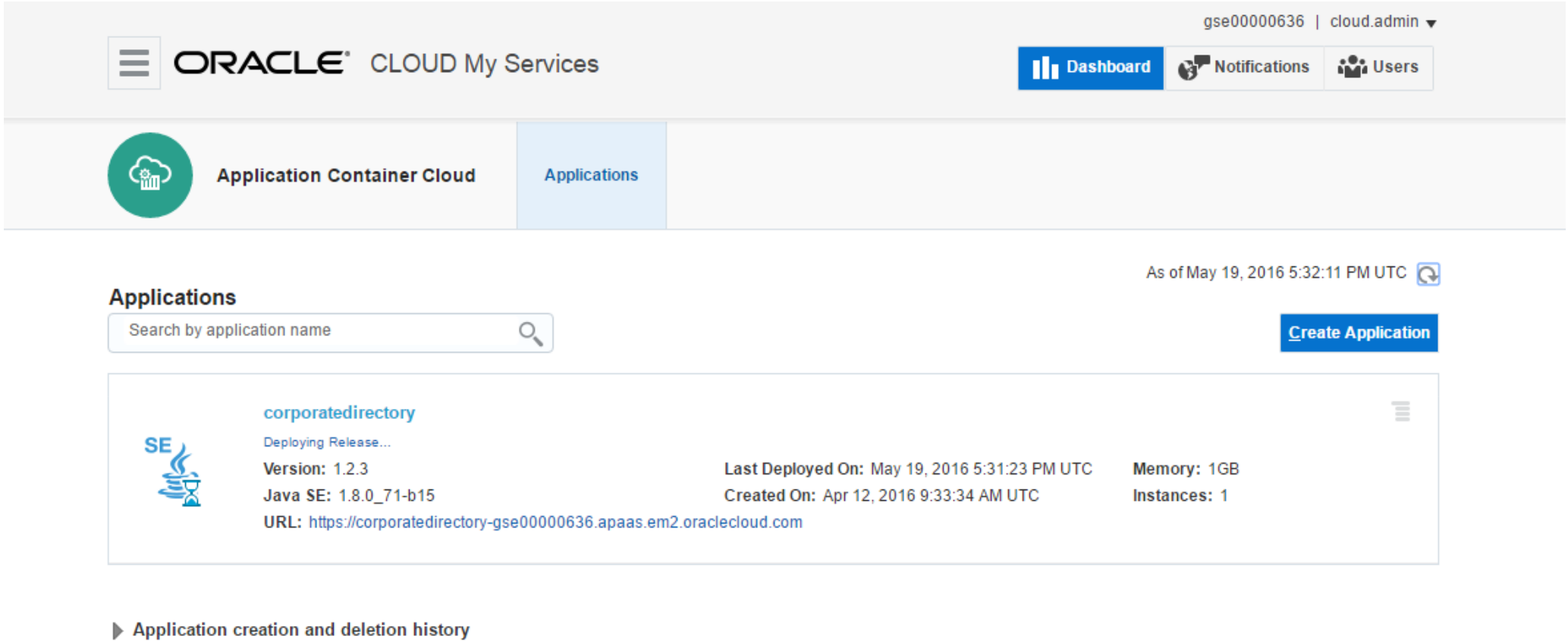

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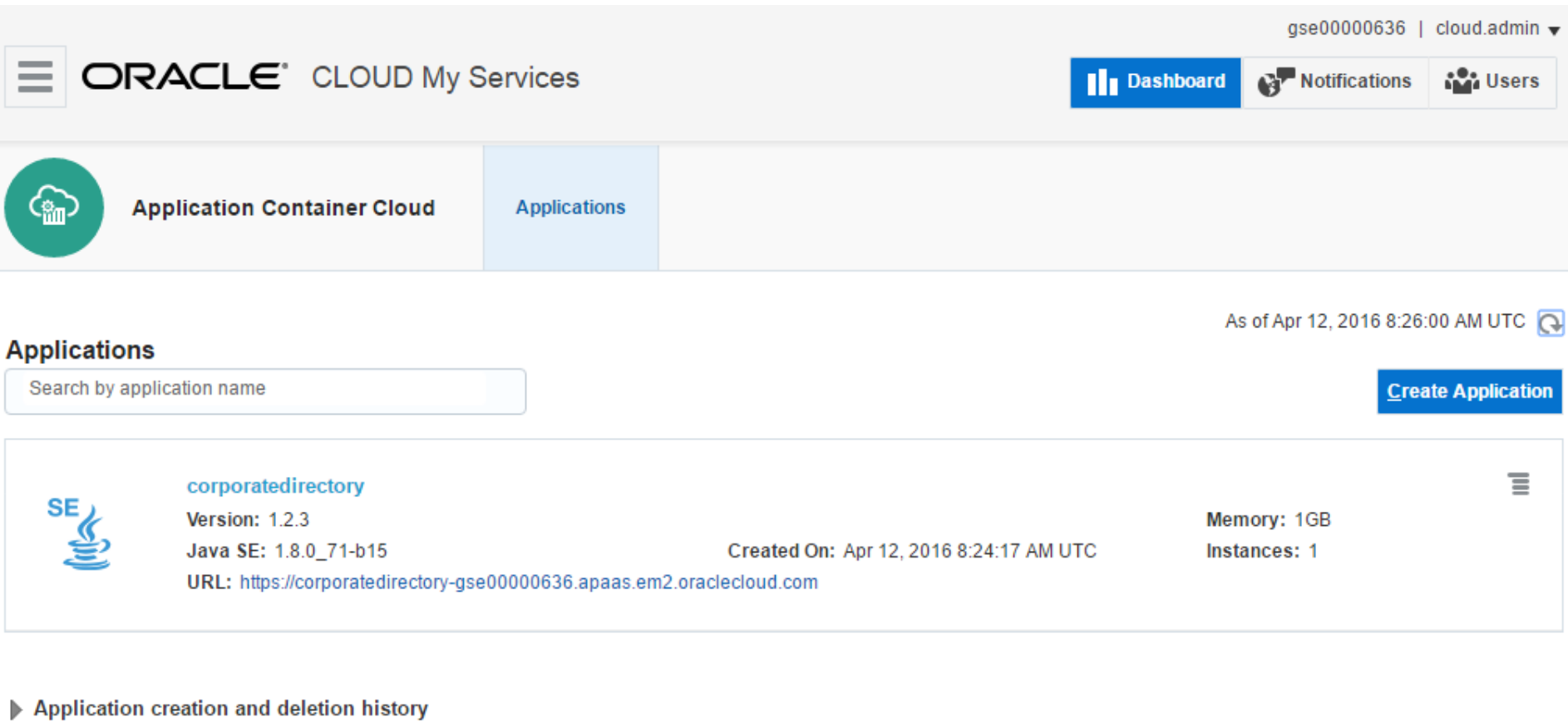

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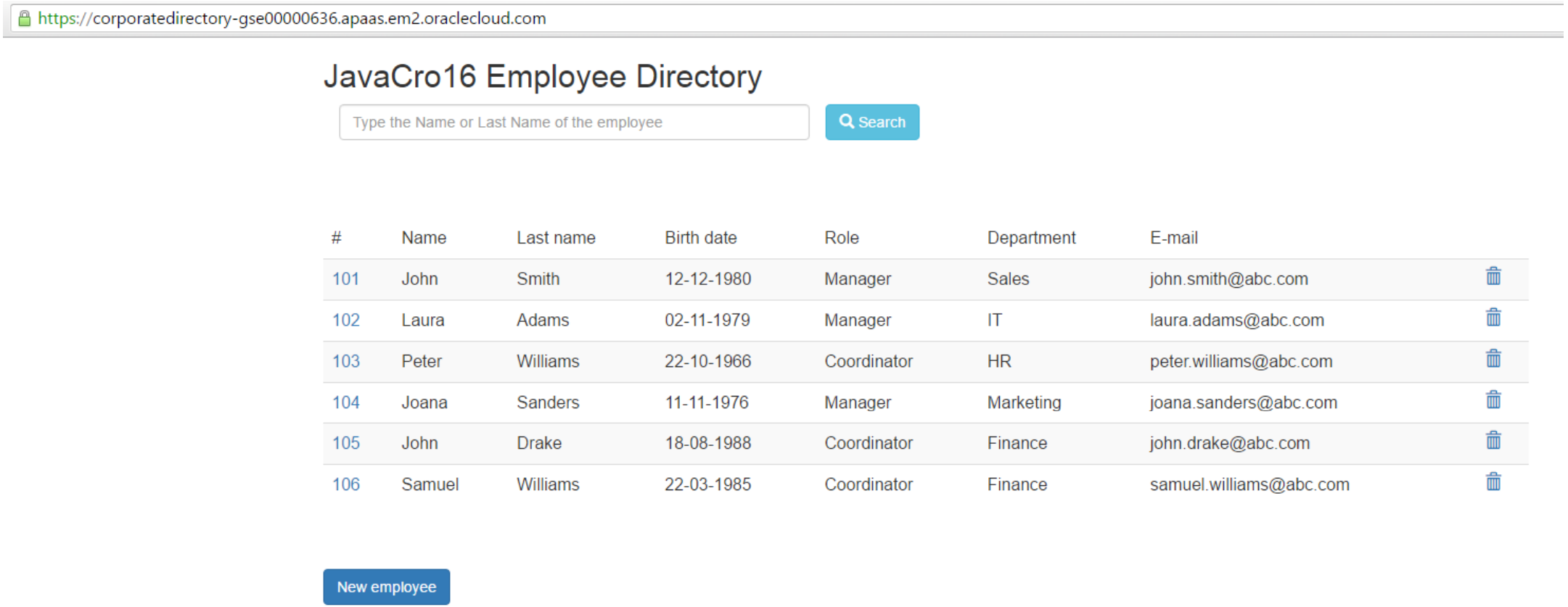

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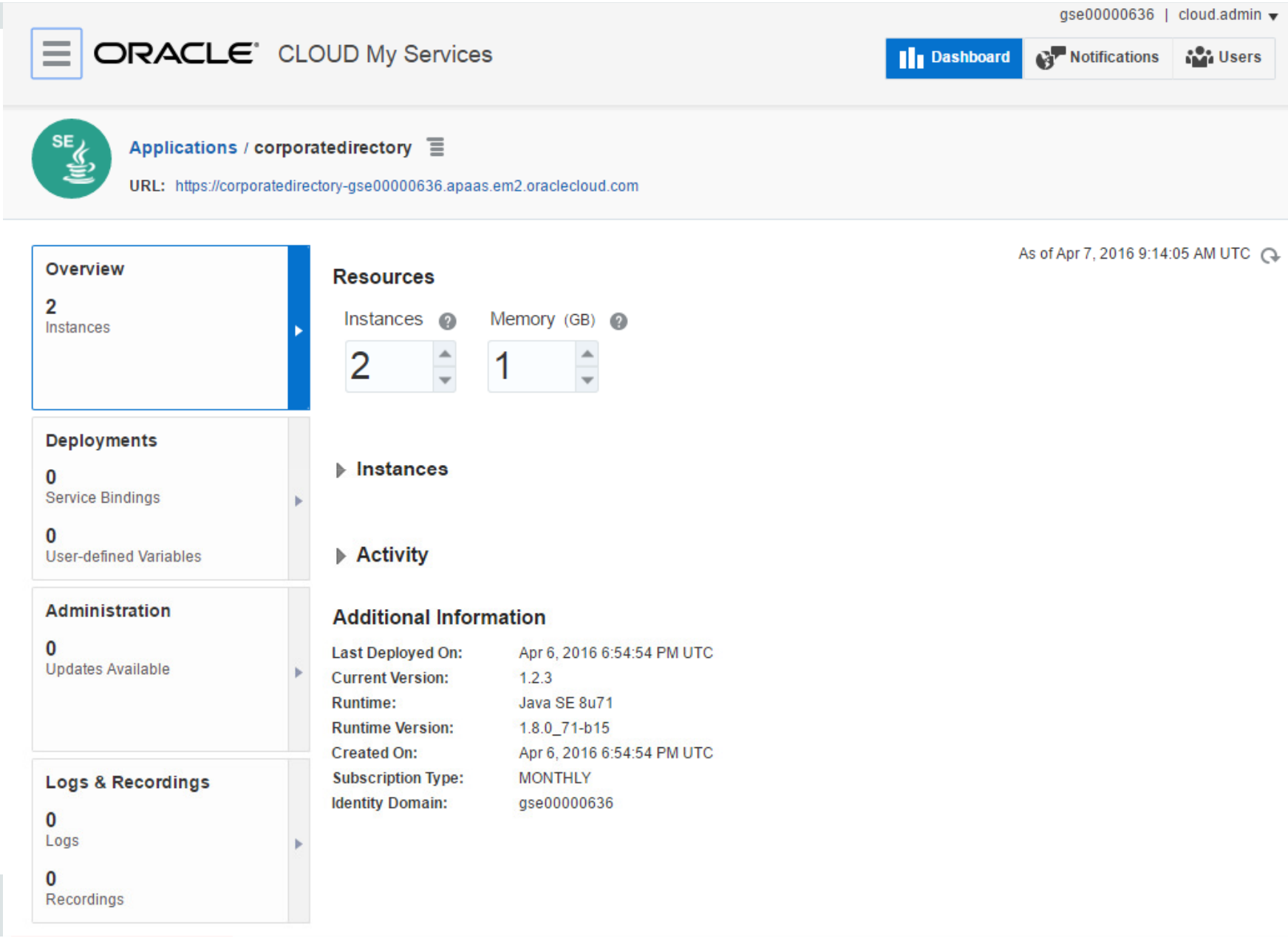
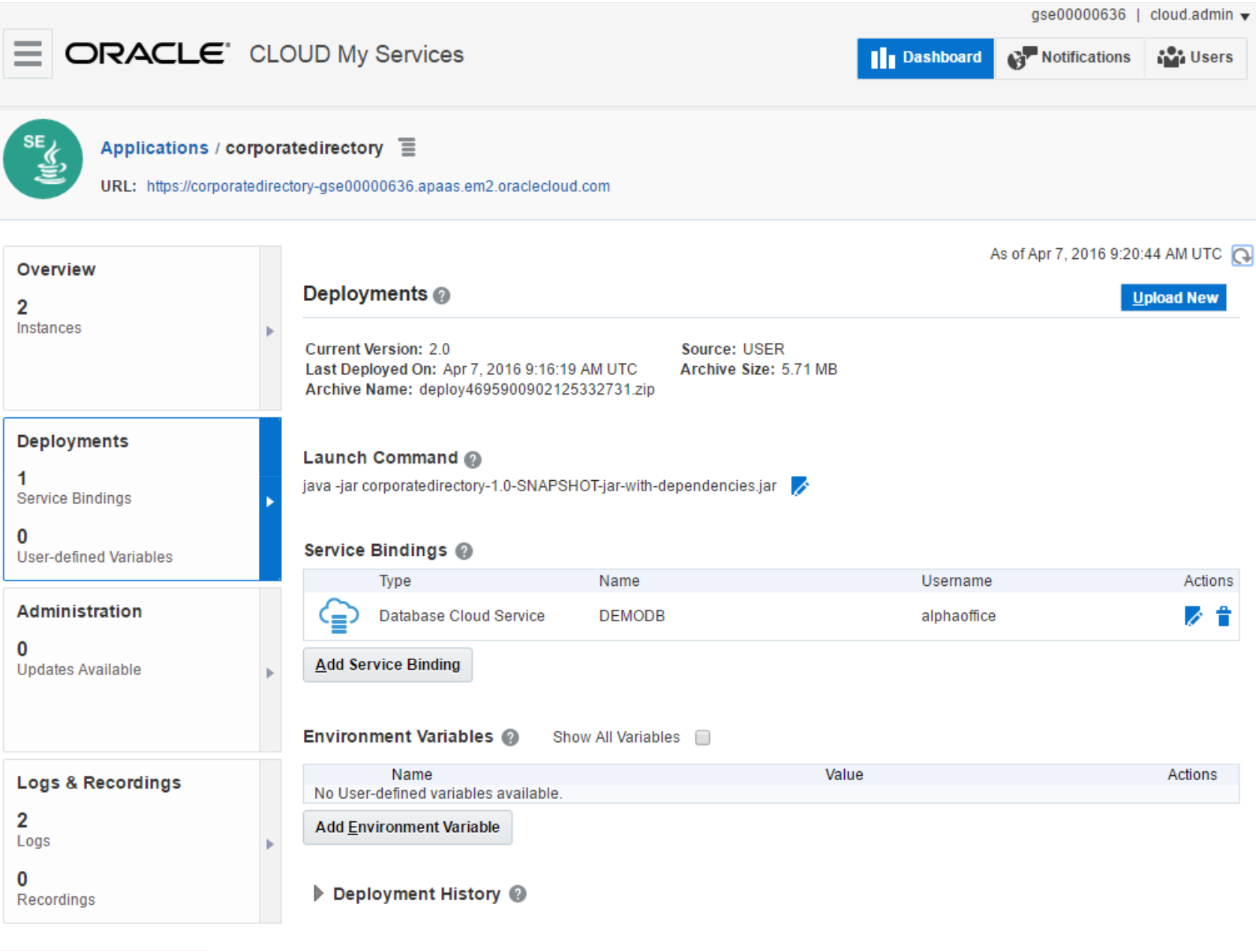
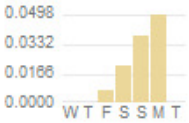

gse00000636 | cloud.admin
ORACLE CLOUD My Services
Dashboard
Notifications
Users
Applications / corporatedirectory
URL: https://corporatedirectory-gse00000636.apaas.em2.oraclecloud.com
Overview
2
Instances
Deployments
0
Service Bindings
0
User-defined Variables
Administration
0
Updates Available
Logs & Recordings
0
Logs
0
Recordings
As of Apr 7, 2016 9:14:05 AM UTC
Resources
Instances
Memory (GB)
2
1
Instances
Activity
Additional Information
Last Deployed On: Apr 6, 2016 6:54:54 PM UTC
Current Version: 1.2.3
Runtime: Java SE 8u71
Runtime Version: 1.8.0_71-b15
Created On: Apr 6, 2016 6:54:54 PM UTC
Subscription Type: MONTHLY
Identity Domain: gse00000636


gse00000636 | cloud.admin
ORACLE CLOUD My Services
Dashboard
Notifications
Users
SE
Applications / corporatedirectory
URL: https://corporatedirectory-gse00000636.apaas.em2.oraclecloud.com
Overview
2
Instances
Deployments
1
Service Bindings
0
User-defined Variables
Administration
0
Updates Available
Logs & Recordings
2
Logs
0
Recordings
As of Apr 7, 2016 9:20:44 AM UTC
Deployments
Upload New
Current Version: 2.0
Last Deployed On: Apr 7, 2016 9:16:19 AM UTC
Archive Name: deploy4695900902125332731.zip
Source: USER
Archive Size: 5.71 MB
Launch Command
java -jar corporatedirectory-1.0-SNAPSHOT-jar-with-dependencies.jar
Service Bindings
Type
Name
Username
Actions
Database Cloud Service
DEMODB
alphaoffice
Add Service Binding
Environment Variables
Show All Variables
Name
Value
Actions
No User-defined variables available.
Add Environment Variable
Deployment History



Storage Capacity (GB-Months)

Oracle Storage Cloud Service

Category: Oracle IaaS Public Cloud Services
Subscription: Trial
Expires 7-Nov-2014 4:18 PM PST

Open Service Console

No data — OCPU Hours (General Purpose)

No data — OCPU Hours (High-Mem)

Oracle Compute Cloud Service

Category: Oracle IaaS Public Cloud Services
Subscription: Trial
Expires 7-Nov-2014 4:18 PM PST

No data — Block Storage Capacity (GB-Months)

No data — Static IP Hours

Open Service Console

No data — SE VI OCPU Months (General Purpose)

No data — SE VI OCPU Hours (General Purpose)

Oracle Java Cloud Service

Category: Oracle Java Public Cloud Services
Subscription: Trial
Expires 7-Nov-2014 4:18 PM PST

No data — EE VI OCPU Months (General Purpose)

No data — EE VI OCPU Hours (General Purpose)

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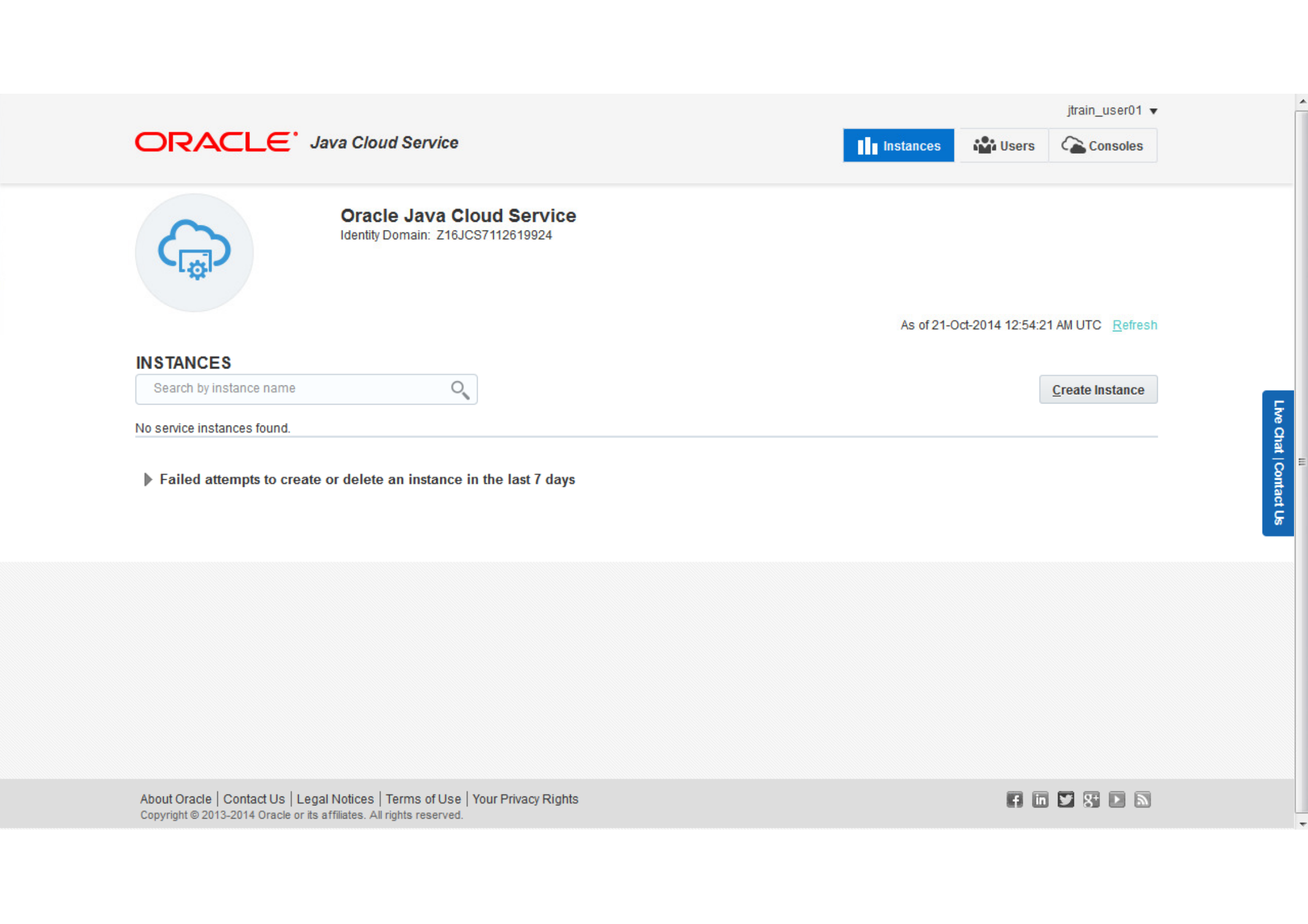
jtrain_user01
ORACLE Java Cloud Service
Instances
Users
Consoles
Oracle Java Cloud Service
Identity Domain: Z16JCS7112619924
As of 21-Oct-2014 12:54:21 AM UTC Refresh
INSTANCES
Search by instance name
Create Instance
No service instances found.
Failed attempts to create or delete an instance in the last 7 days
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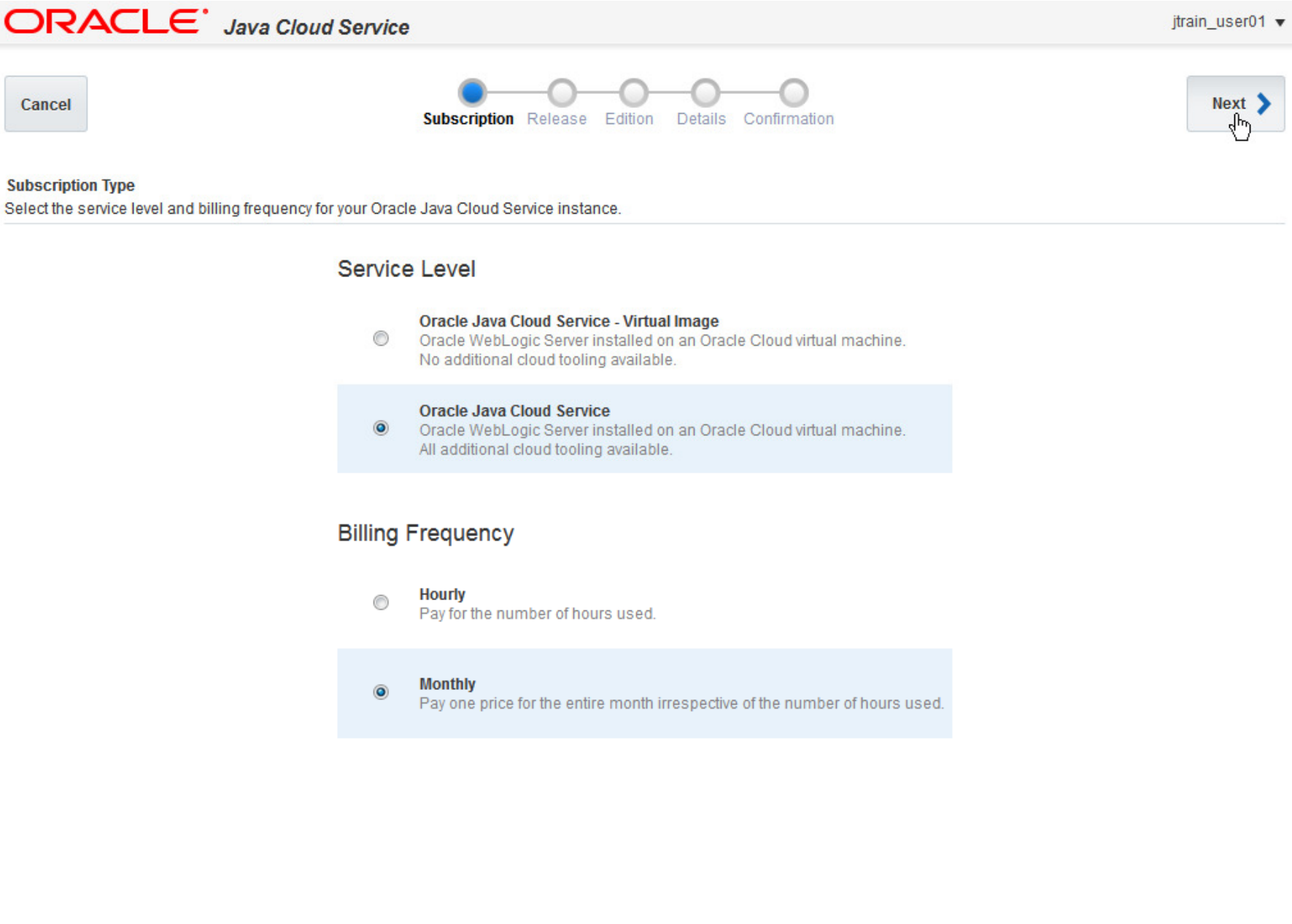
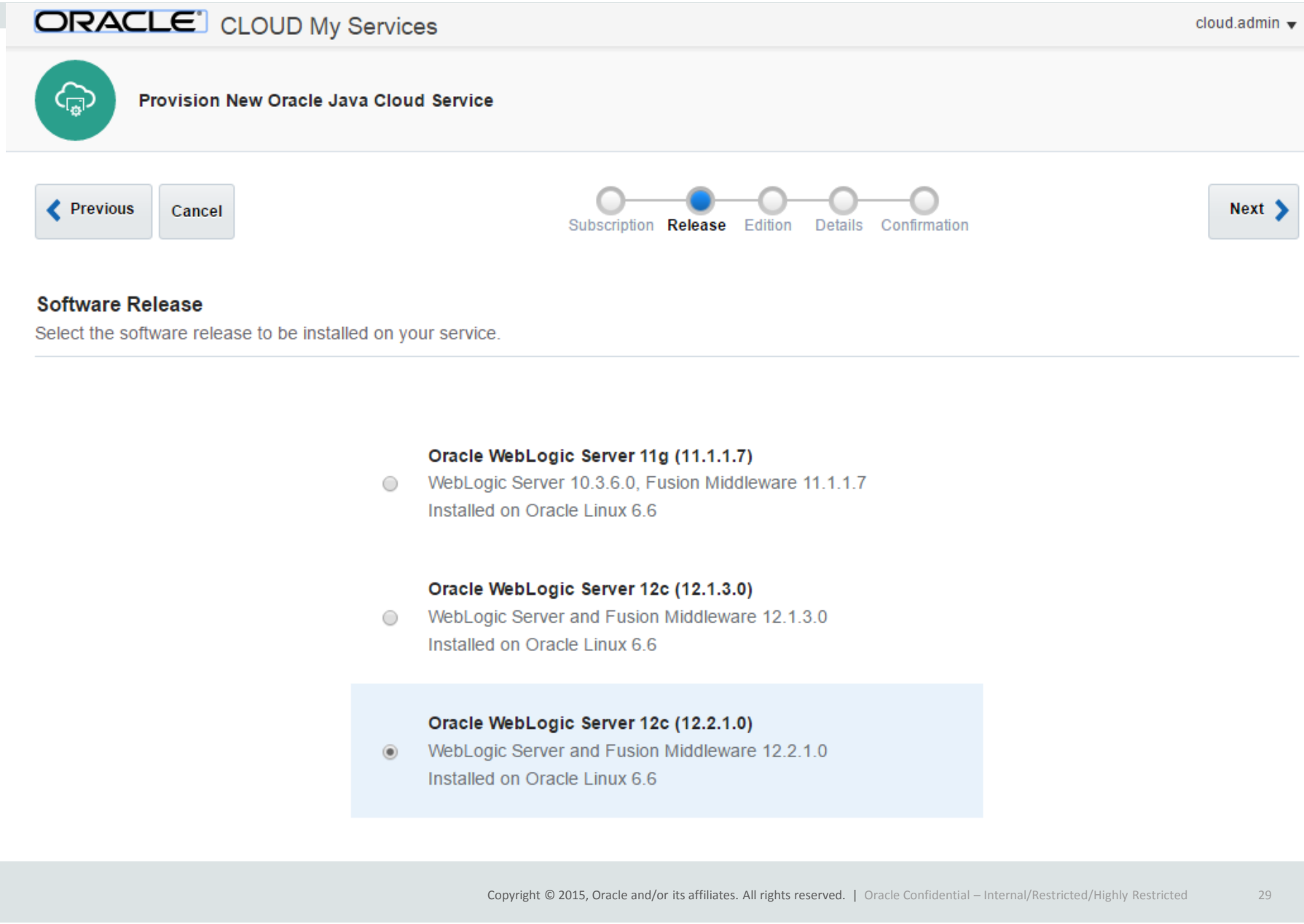

ORACLE Java Cloud Service
jtrain_user01
Cancel
Subscription
Release
Edition
Details
Confirmation
Next
Subscription Type
Select the service level and billing frequency for your Oracle Java Cloud Service instance.
Service Level
Oracle Java Cloud Service - Virtual Image
Oracle WebLogic Server installed on an Oracle Cloud virtual machine.
No additional cloud tooling available.
Oracle Java Cloud Service
Oracle WebLogic Server installed on an Oracle Cloud virtual machine.
All additional cloud tooling available.
Billing Frequency
Hourly
Pay for the number of hours used.
Monthly
Pay one price for the entire month irrespective of the number of hours used.
Live Chat | Contact Us
www.oracle.com



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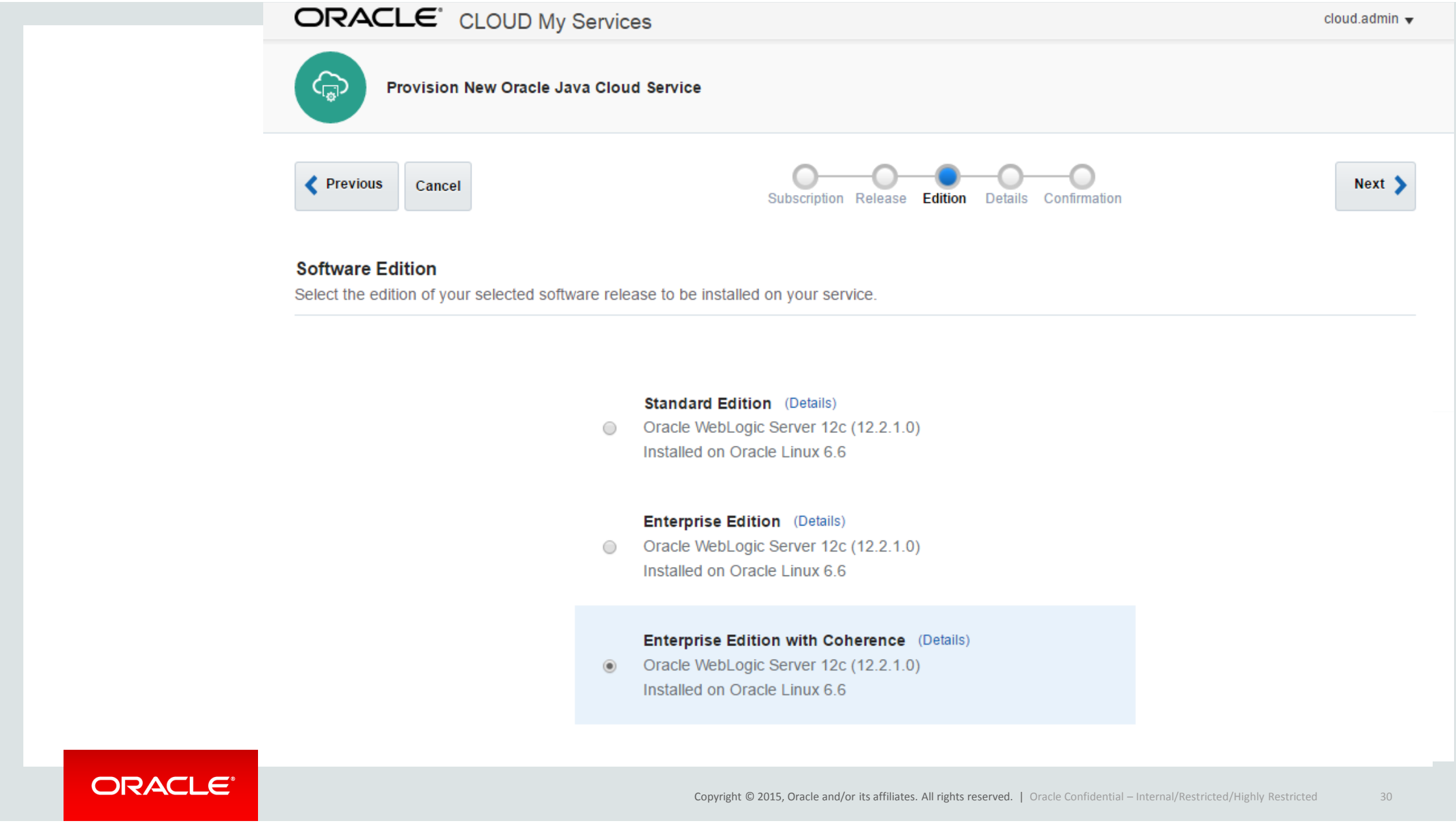

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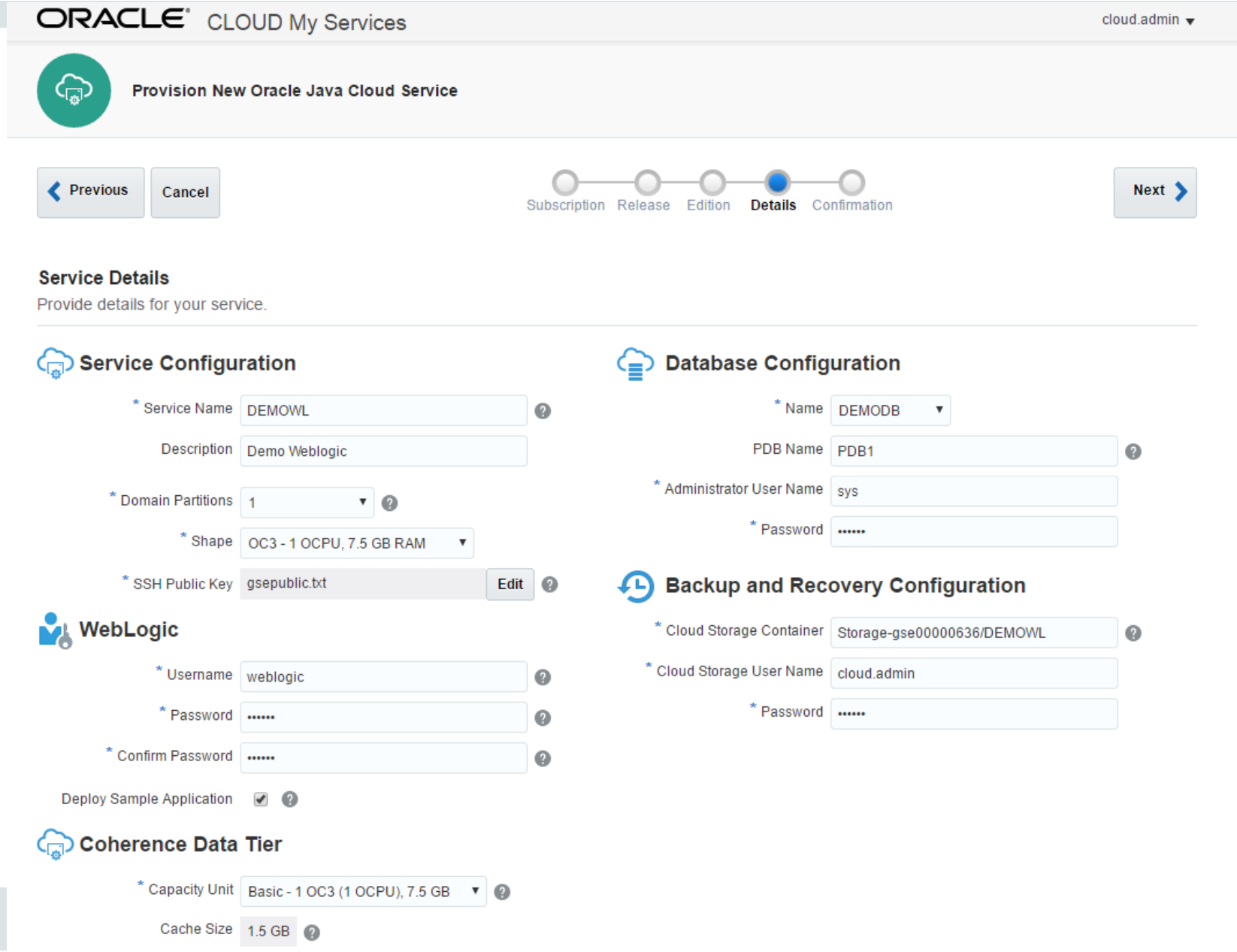
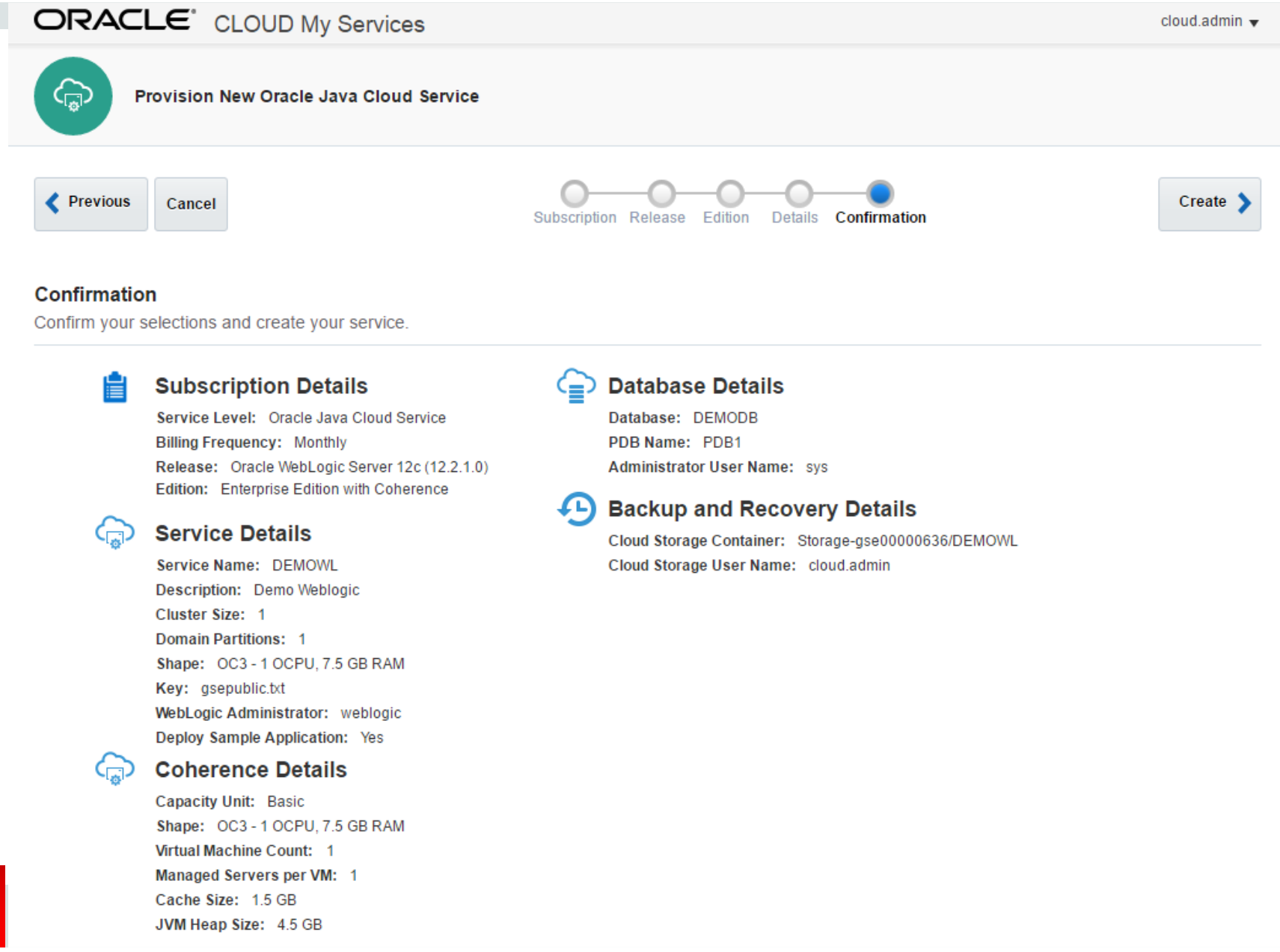
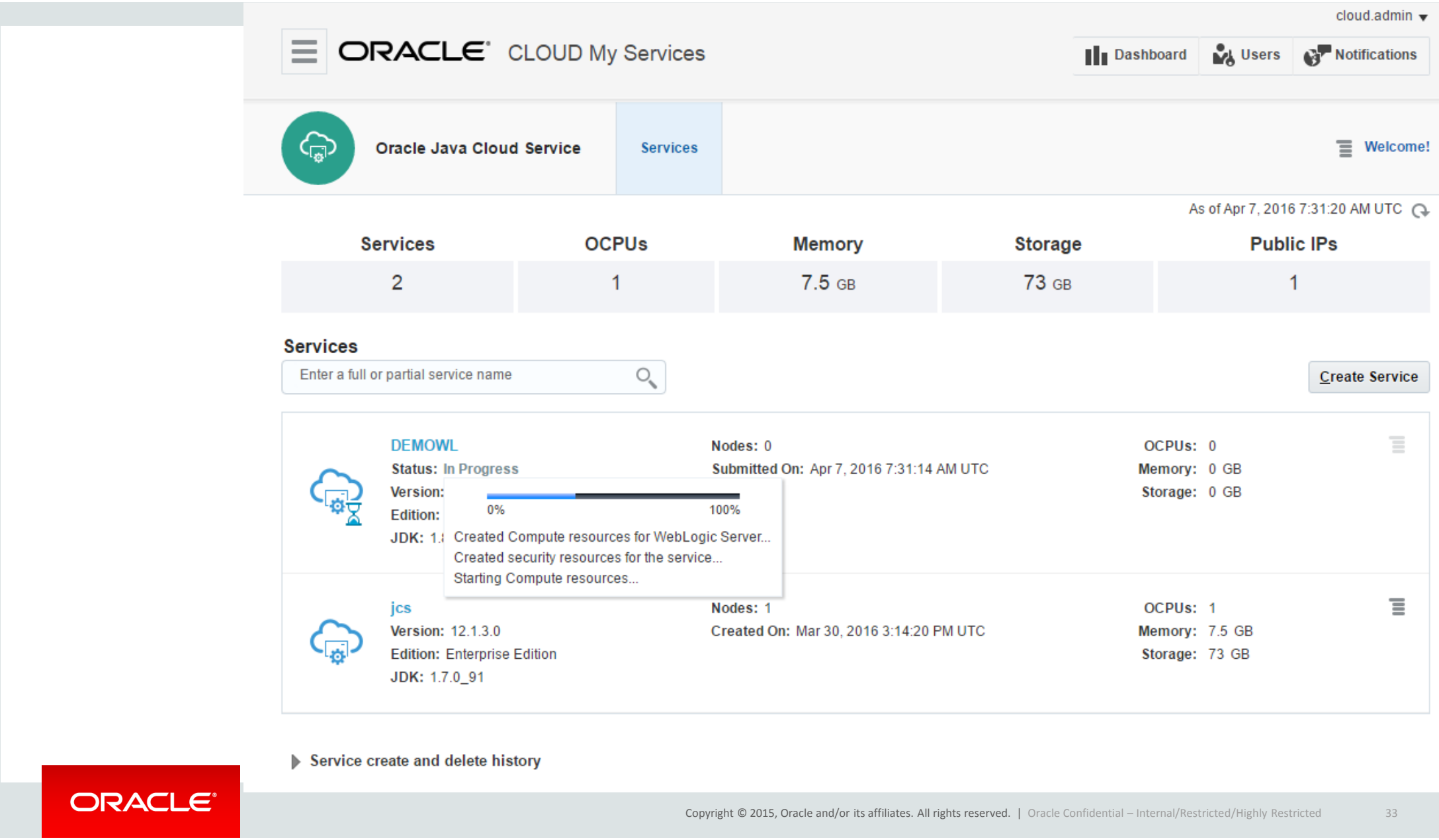

ORACLE CLOUD My Services
cloud.admin
Provision New Oracle Java Cloud Service
Previous
Cancel
Subscription
Release
Edition
Details
Confirmation
Next
Service Details
Provide details for your service.
Service Configuration
* Service Name
DEMOWL
Description
Demo Weblogic
* Domain Partitions
1
* Shape
OC3 - 1 OCPU, 7.5 GB RAM
* SSH Public Key
gsepublic.txt
Edit
WebLogic
* Username
weblogic
* Password
* Confirm Password
Deploy Sample Application
Coherence Data Tier
* Capacity Unit
Basic - 1 OC3 (1 OCPU), 7.5 GB
Cache Size
1.5 GB
Database Configuration
* Name
DEMODB
PDB Name
PDB1
* Administrator User Name
sys
* Password
Backup and Recovery Configuration
* Cloud Storage Container
Storage-gse00000636/DEMOWL
* Cloud Storage User Name
cloud.admin
* Password


ORACLE CLOUD My Services
cloud.admin
Provision New Oracle Java Cloud Service
Previous
Cancel
Subscription
Release
Edition
Details
Confirmation
Create
Confirmation
Confirm your selections and create your service.
Subscription Details
Service Level: Oracle Java Cloud Service
Billing Frequency: Monthly
Release: Oracle WebLogic Server 12c (12.2.1.0)
Edition: Enterprise Edition with Coherence
Service Details
Service Name: DEMOWL
Description: Demo Weblogic
Cluster Size: 1
Domain Partitions: 1
Shape: OC3 - 1 OCPU, 7.5 GB RAM
Key: gsepublic.txt
WebLogic Administrator: weblogic
Deploy Sample Application: Yes
Coherence Details
Capacity Unit: Basic
Shape: OC3 - 1 OCPU, 7.5 GB RAM
Virtual Machine Count: 1
Managed Servers per VM: 1
Cache Size: 1.5 GB
JVM Heap Size: 4.5 GB
Database Details
Database: DEMODB
PDB Name: PDB1
Administrator User Name: sys
Backup and Recovery Details
Cloud Storage Container: Storage-gse00000636/DEMOWL
Cloud Storage User Name: cloud.admin



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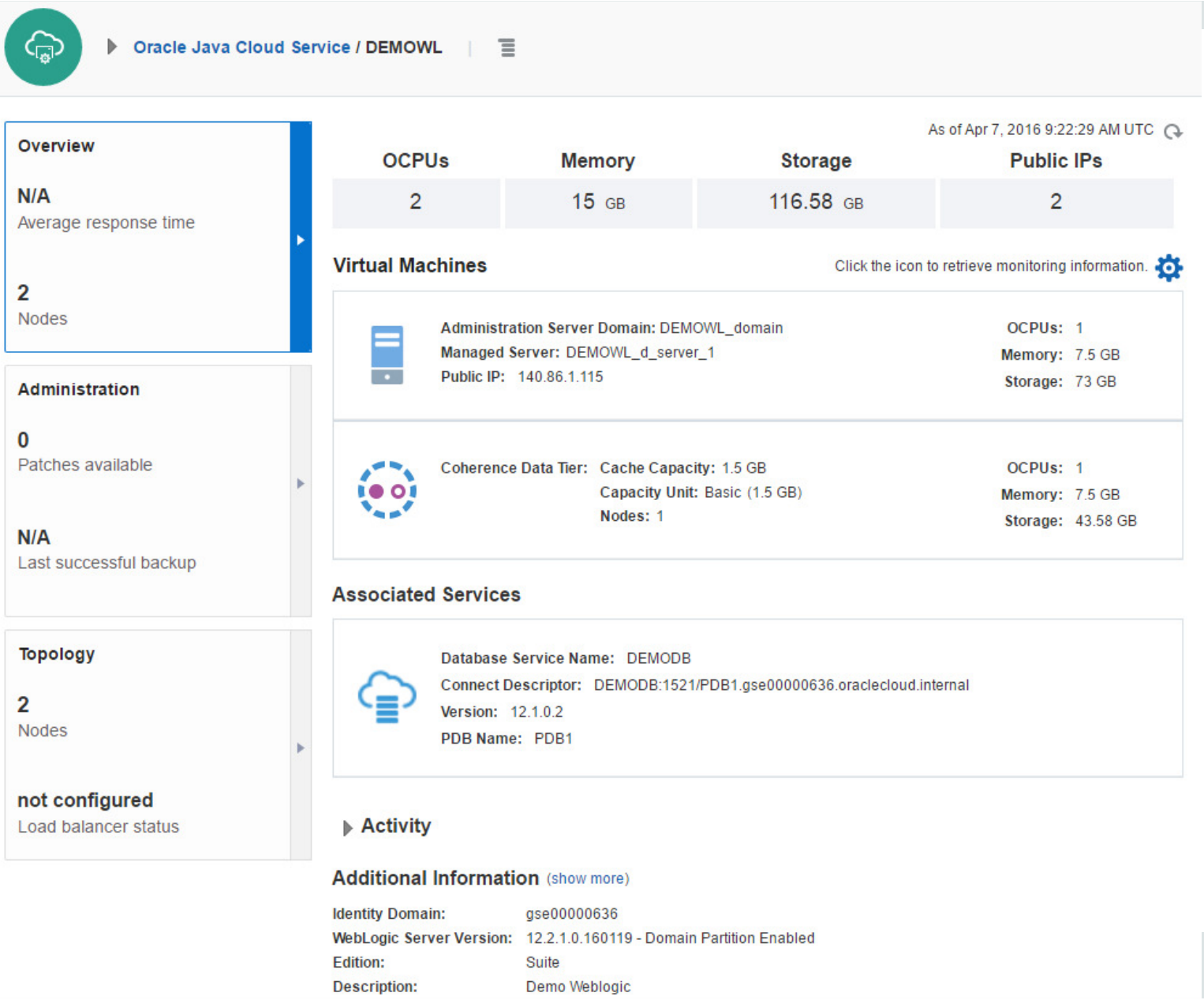
Oracle Java Cloud Service / DEMOWL
Overview
N/A
Average response time
2
Nodes
Administration
0
Patches available
N/A
Last successful backup
Topology
2
Nodes
not configured
Load balancer status
As of Apr 7, 2016 9:22:29 AM UTC
OCPUs
Memory
Storage
Public IPs
2
15 GB
116.58 GB
2
Virtual Machines
Click the icon to retrieve monitoring information.
Administration Server Domain: DEMOWL_domain
Managed Server: DEMOWL_d_server_1
Public IP: 140.86.1.115
OCPUs: 1
Memory: 7.5 GB
Storage: 73 GB
Coherence Data Tier: Cache Capacity: 1.5 GB
Capacity Unit: Basic (1.5 GB)
Nodes: 1
OCPUs: 1
Memory: 7.5 GB
Storage: 43.58 GB
Associated Services
Database Service Name: DEMODB
Connect Descriptor: DEMODB:1521/PDB1.gse00000636.oraclecloud.internal
Version: 12.1.0.2
PDB Name: PDB1
Activity
Additional Information (show more)
Identity Domain: gse00000636
WebLogic Server Version: 12.2.1.0.160119 - Domain Partition Enabled
Edition: Suite
Description: Demo Weblogic

jtrain_user01

ORACLE Java Cloud Service

Instances | Users | Consoles

Instances > MyJCS1

MyJCS1 (Oracle Java Cloud Service)

WebLogic Server Version: 12.1.2.0
Description: Auto Generated Service, Session Name: Bulk Request JCS U1-5

OVERVIEW

average response time: n/a

3
nodes

ADMINISTRATION

0
patches available

20-Oct-2014 3:10 PM UTC
last backup

TOPOLOGY

3
nodes

load balancer enabled

BACKUP | PATCHING | LOAD BALANCER

Incremental backup daily at 3:10 PM UTC (Full backup every Thu at 3:10 PM UTC)
Last Successful Backup 20-Oct-2014 3:10 PM UTC

As of 21-Oct-2014 1:03:17 AM UTC Refresh

Configure Backups | Back Up Now

Available Backups

20-Oct-2014 3:10 PM UTC
Type: Incremental, scheduled
Available Until: 19-Nov-2014 3:10 PM UTC
Location: Disk
Contains:
Notes:

19-Oct-2014 3:10 PM UTC
Type: Incremental, scheduled
Available Until: 18-Nov-2014 3:10 PM UTC
Location: Disk
Contains:
Notes:

18-Oct-2014 3:10 PM UTC
Type: Incremental, scheduled
Available Until: 17-Nov-2014 3:10 PM UTC
Location: Disk
Contains:
Notes:

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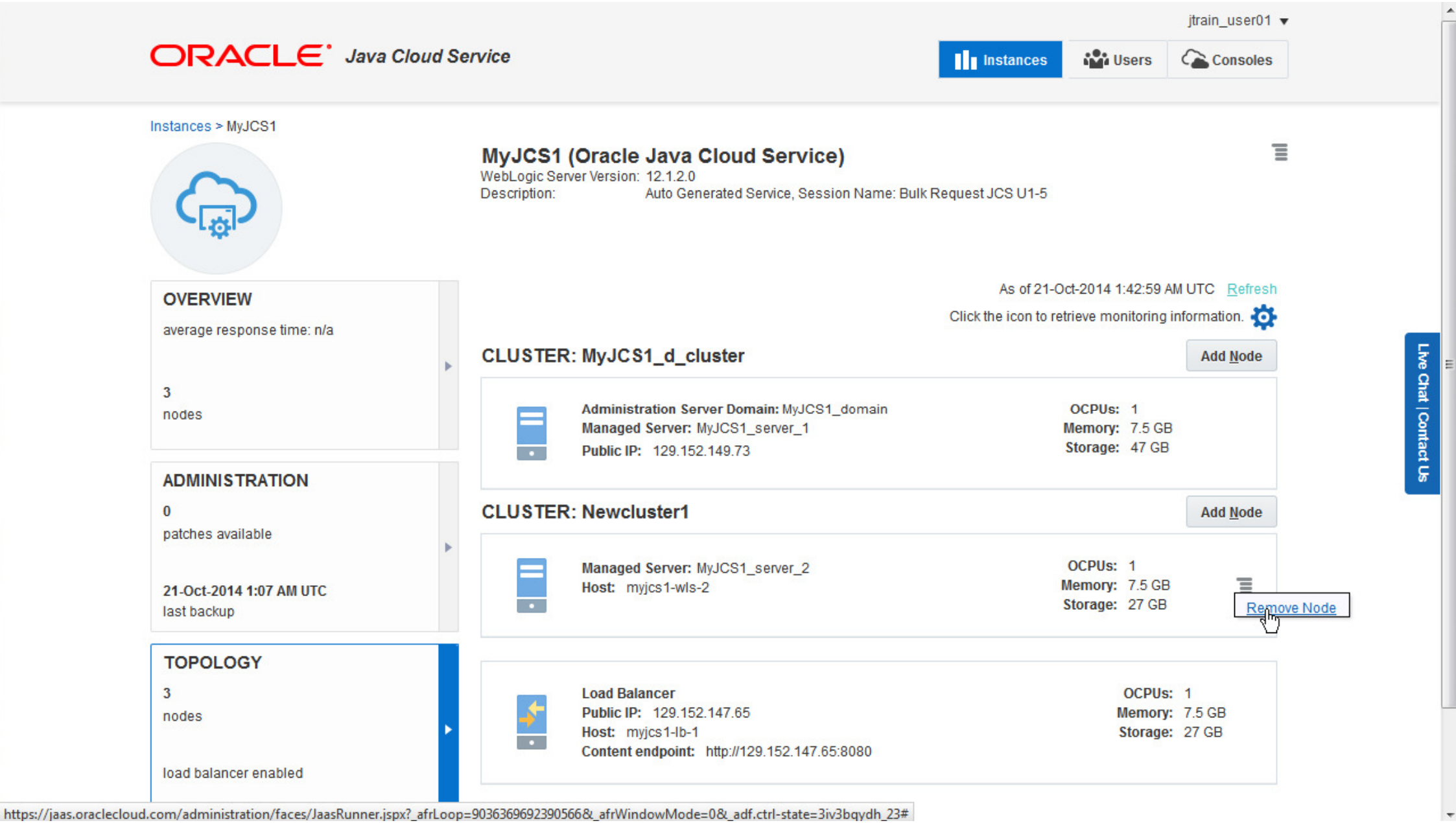
jtrain_user01
ORACLE Java Cloud Service
Instances
Users
Consoles
Instances > MyJCS1
MyJCS1 (Oracle Java Cloud Service)
WebLogic Server Version: 12.1.2.0
Description: Auto Generated Service, Session Name: Bulk Request JCS U1-5
OVERVIEW
average response time: n/a
3
nodes
ADMINISTRATION
0
patches available
21-Oct-2014 1:07 AM UTC
last backup
TOPOLOGY
3
nodes
load balancer enabled
As of 21-Oct-2014 1:42:59 AM UTC Refresh
Click the icon to retrieve monitoring information.
CLUSTER: MyJCS1_d_cluster
Add Node
Administration Server Domain: MyJCS1_domain
Managed Server: MyJCS1_server_1
Public IP: 129.152.149.73
OCPUs: 1
Memory: 7.5 GB
Storage: 47 GB
CLUSTER: Newcluster1
Add Node
Managed Server: MyJCS1_server_2
Host: myjcs1-wls-2
OCPUs: 1
Memory: 7.5 GB
Storage: 27 GB
Remove Node
Load Balancer
Public IP: 129.152.147.65
Host: myjcs1-lb-1
Content endpoint: http://129.152.147.65:8080
OCPUs: 1
Memory: 7.5 GB
Storage: 27 GB
Live Chat | Contact Us
https://jaas.oraclecloud.com/administration/faces/JaasRunner.jspx?_afrLoop=90363696923905668&_afrWindowMode=0&_adf.ctrl-state=3iv3bqydh_23#

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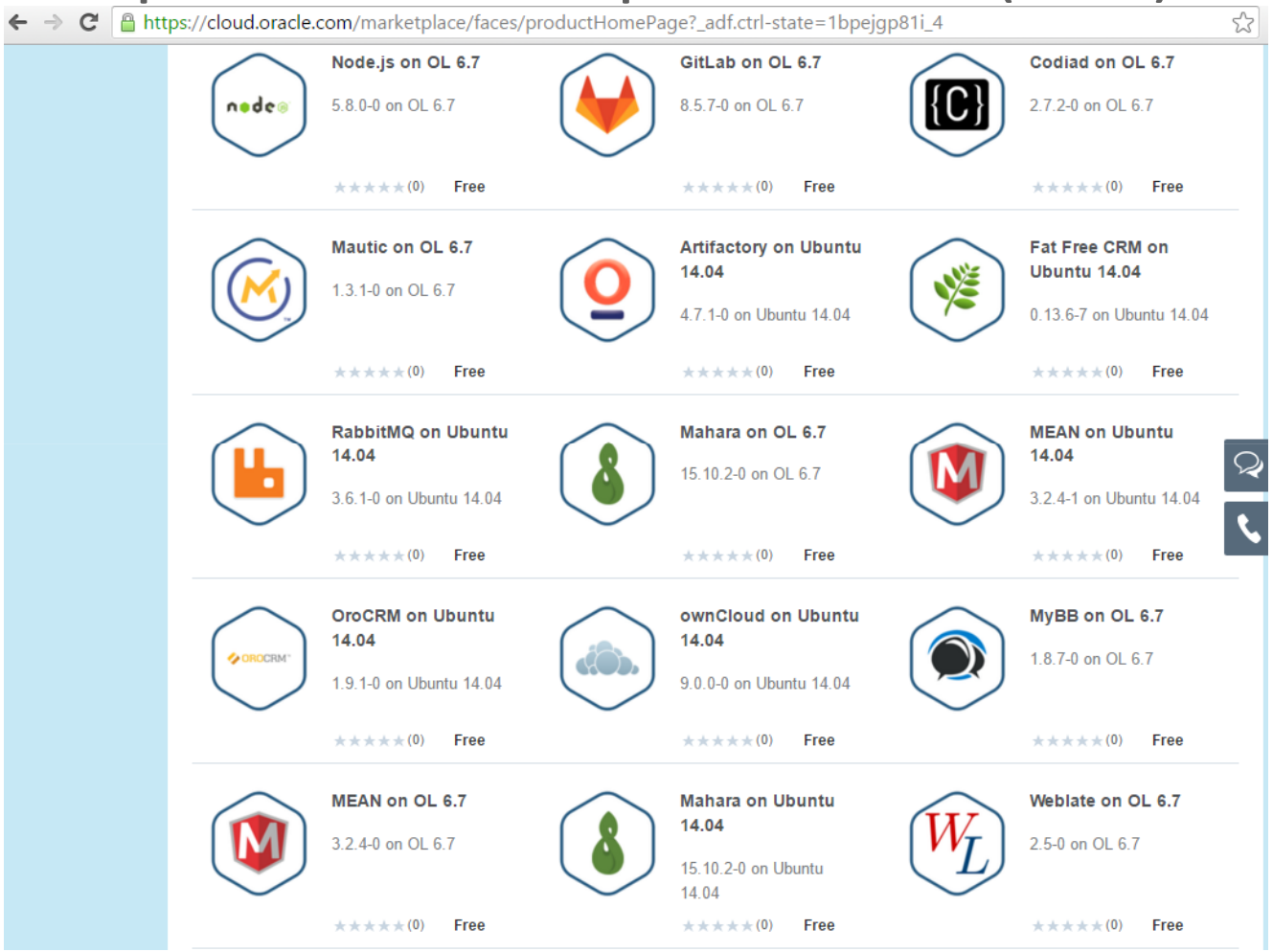
Cloud Marketplace and Compute Cloud (IaaS)



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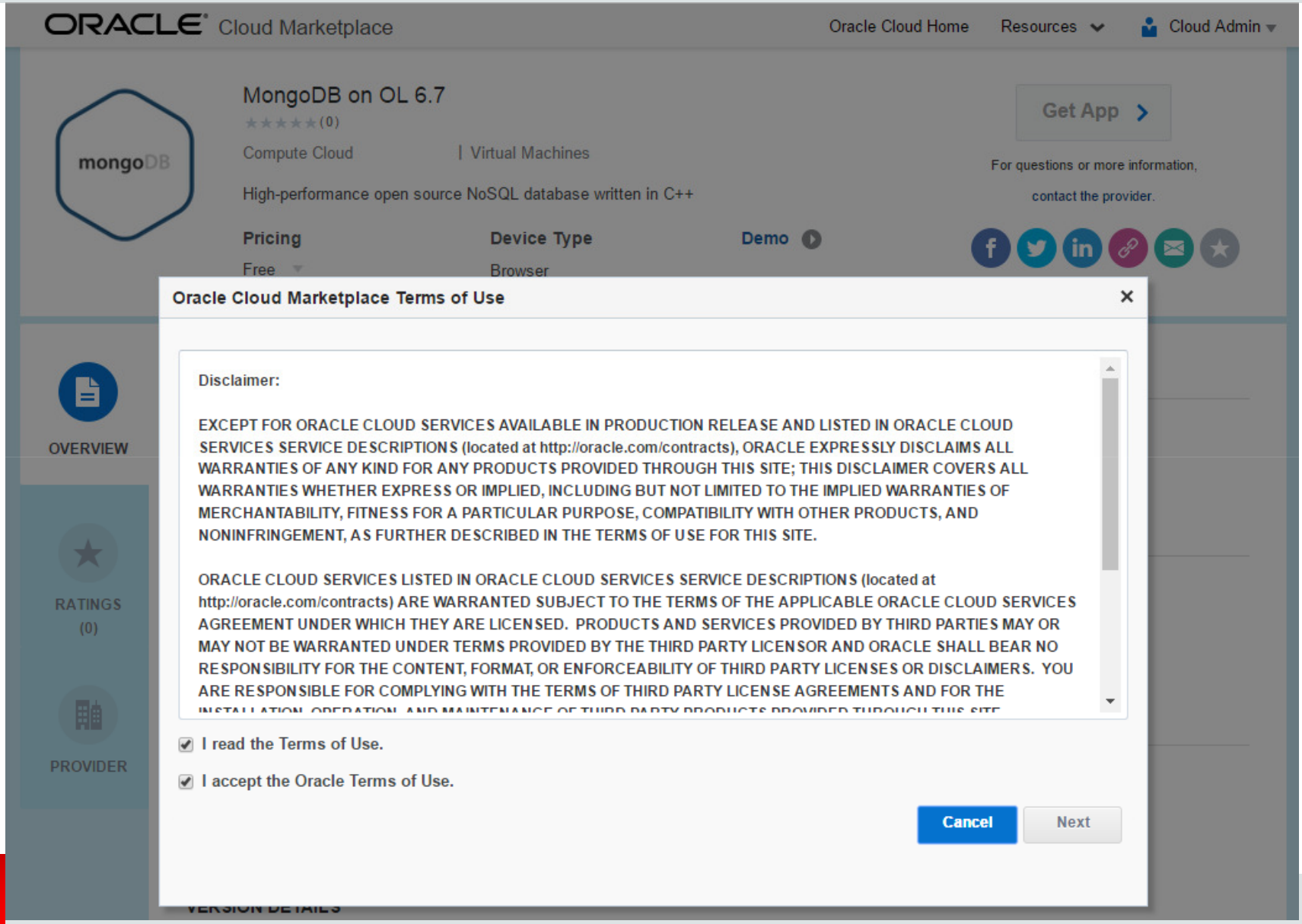
ORACLE Cloud Marketplace
Oracle Cloud Home
Resources
Cloud Admin
MongoDB on OL 6.7
(0)
Compute Cloud
Virtual Machines
High-performance open source NoSQL database written in C++
Pricing
Free
Device Type
Browser
Demo
Get App
For questions or more information,
contact the provider.
OVERVIEW
RATINGS
(0)
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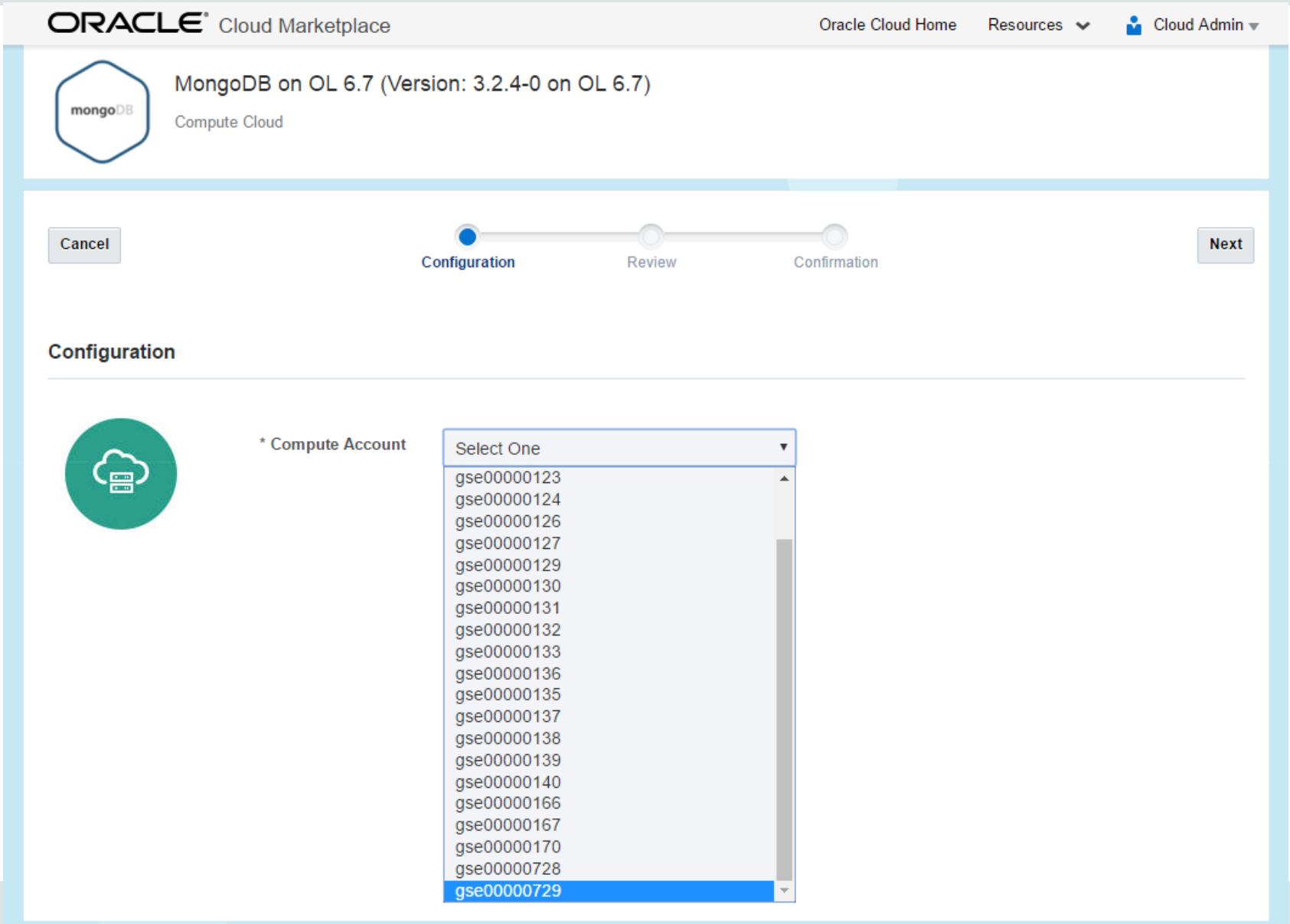
I accept the Oracle Terms of Use.
Cancel
Next


ORACLE Cloud Marketplace
Oracle Cloud Home
Resources
Cloud Admin
mongoDB
MongoDB on OL 6.7 (Version: 3.2.4-0 on OL 6.7)
Compute Cloud
Cancel
Configuration
Review
Confirmation
Next
Configuration
* Compute Account
Select One
gse00000123
gse00000124
gse00000126
gse00000127
gse00000129
gse00000130
gse00000131
gse00000132
gse00000133
gse00000136
gse00000135
gse00000137
gse00000138
gse00000139
gse00000140
gse00000166
gse00000167
gse00000170
gse00000728
gse00000729

ORACLE Cloud Marketplace

Oracle Cloud Home | Resources | Cloud Admin

Tomcat on OEL 6.7 (Version: Version 7.0.65-0 on OEL 6.7)

Compute Cloud

Configuration — Review — **Confirmation**

The Tomcat on OEL 6.7 app for creating virtual machine (VM) instances is now available in your Compute account.
To create a VM instance, start the Compute Console.

Start Compute Console

Mobile Cloud Service

Bespoke Apps

Java

Microsoft .NET

Packaged Apps

ORACLE E-BUSINESS SUITE

ORACLE JD EDWARDS

SAP

ORACLE PEOPLESOFT

ORACLE SIEBEL

Cloud Apps

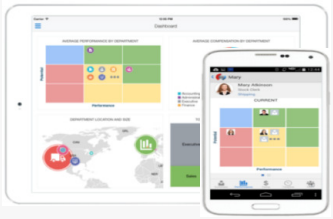
ORACLE CLOUD

salesforce

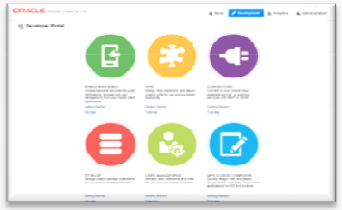
API Catalog

RAML

Develop



Deploy



Monitor & Optimize

ORACLE

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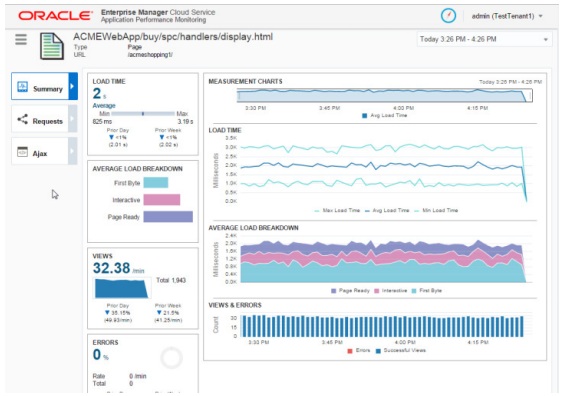
Management Cloud Services

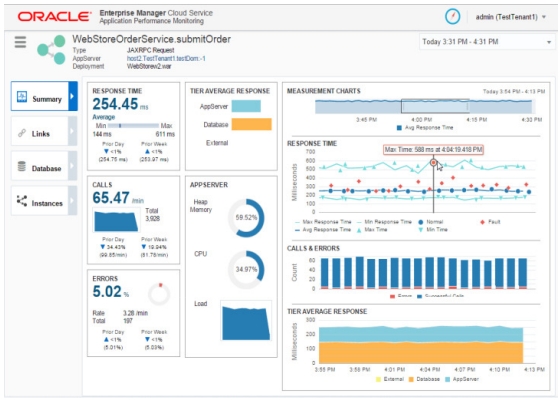
On-Premise

ORACLE CLOUD

amazon web services™

Windows Azure





Performance Monitoring | I/T Analytics | Log Analytics

Common Management Platform

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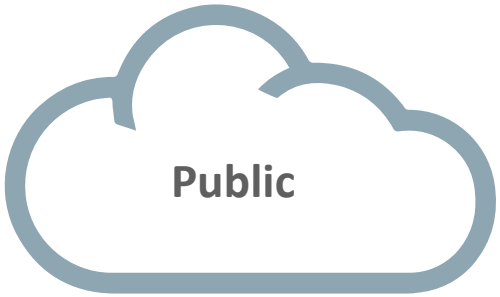
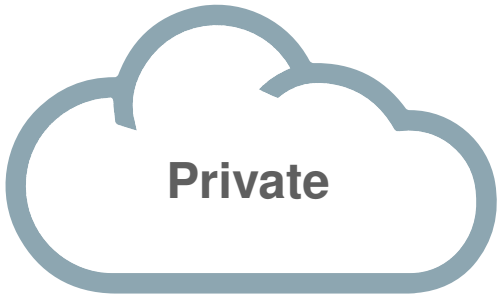
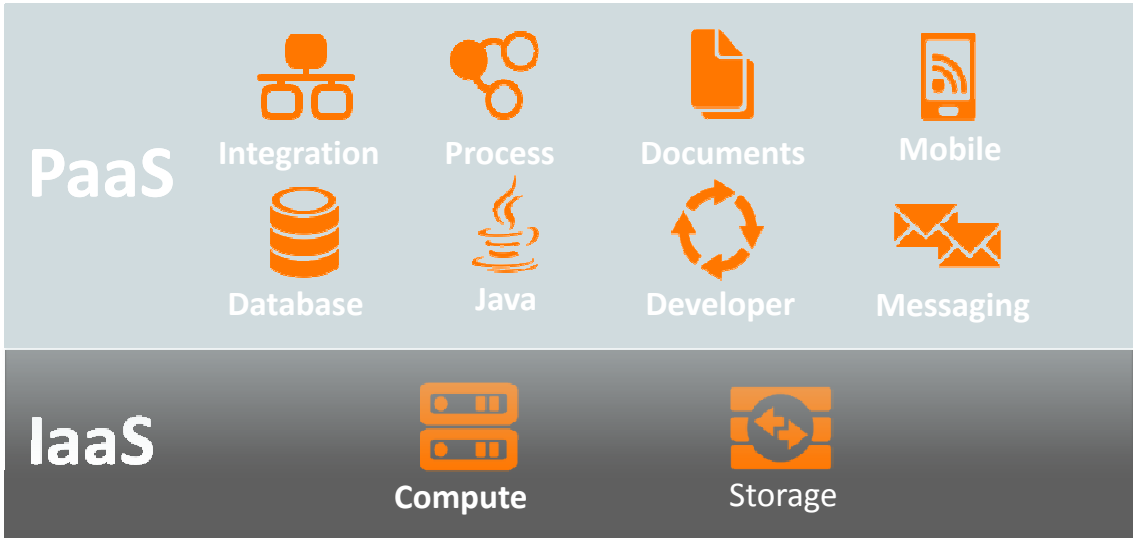
If You Can’t Use Oracle Public Cloud

Oracle Cloud Machine



- **Same** Software
- **Same** Experience
- **Same** Pricing Options





- 2-10x greater scalability, performance
- Full vertical integration from one vendor
- Lowest business risk

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JavaCro'16

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JavaCro'16

Integrated Cloud

Applications & Platform Services

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