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Objectives

After completing this lesson, you should be able to:

- Get an overview of Oracle Application Container Cloud
- Understand the unique features of Oracle Application Container Cloud
- · Understand how to build, zip, and deploy applications to the cloud



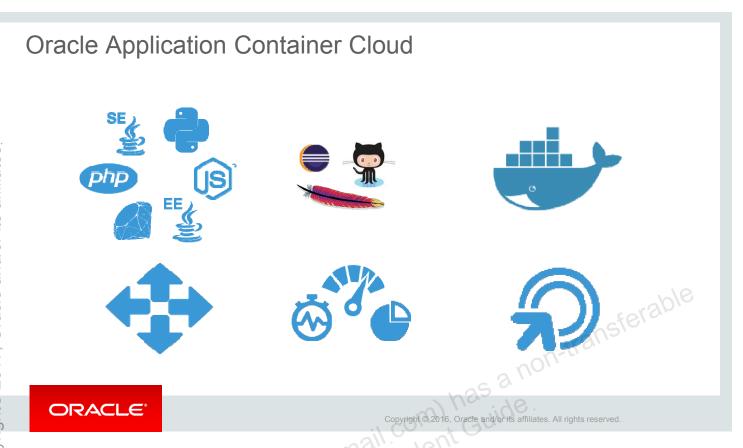
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Oracle Application Container Cloud Service



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

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Simple and easy to use deployment platform for Java SE & Node applications
Open platform—use any application frameworks and libraries
Runs applications in Docker containers for reliability and scalability

Polyglot Platform



Deploy applications to a selection of popular language runtimes supported

 Latest release supports Java SE, Java EE Web Apps, Node.js, and PHP

Leverage unique Oracle Java SE features

- Immediate access to platform upgrades, security, platform optimizations
- Continued commercial support for Java SE versions no longer receiving public updates

Node access to Oracle DB with open source database driver

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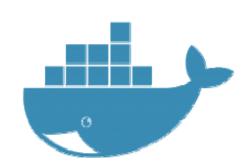
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Runtime releases regularly updated to the latest



Use any of the thousands of open source or commercial Java or Node frameworks—no restrictions.

Container-based Application Platform as a Service



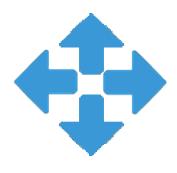
Applications run on Oracle Linux in Docker containers

Stateless Applications

- · Ephemeral disk
- Permanent storage through database or storage service

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Elastic Scaling



Resources

Instances @

Memory (GB)





On demand elastic scaling either through the service console or using the service REST API

Scale out / in

 Add / remove application instances to handle workloads

Scale up / down

 Add / remove RAM to accommodate application memory requirements



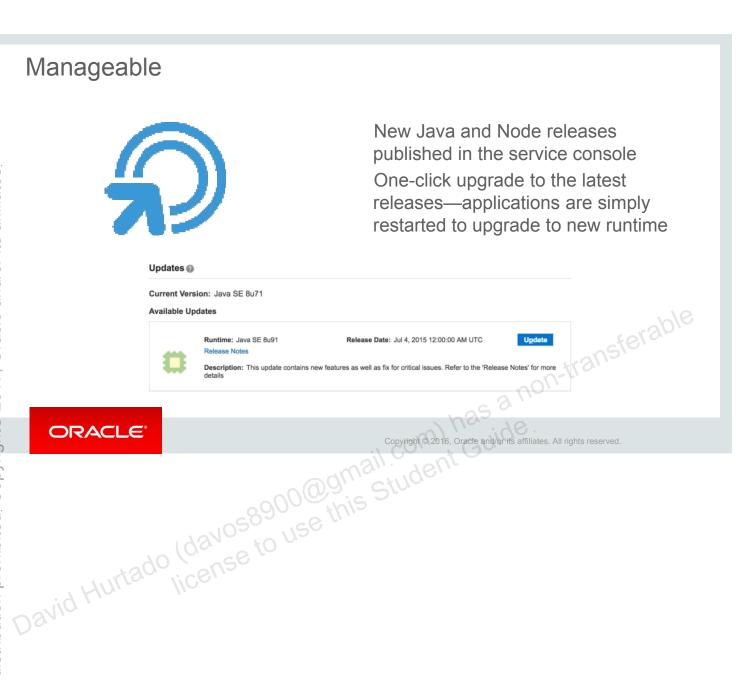
Profiling



Java application can use Java Flight Recorder to monitor application and JVM behavior and analyze in Mission Control

Use Application Performance Monitoring Cloud Service for advanced use cases

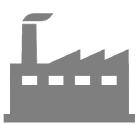
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Build



Deploy!









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Build

 Use your favourite or corporate standard build system to produce binaries and deployable resources.

Zip

• Zip up all binaries, scripts, html files, images, etc. that make up your application. The structure of the zip is entirely up to the user—we have no opinion on structure.

Deploy

• Deploy the application archive (zip) to the platform and tell us how to start the application. This could be "java –jar', "java –classpath ... <main>", "node myapp.js", or "sh bootmyapp.sh".

Deploy—Application Archive (Zip)

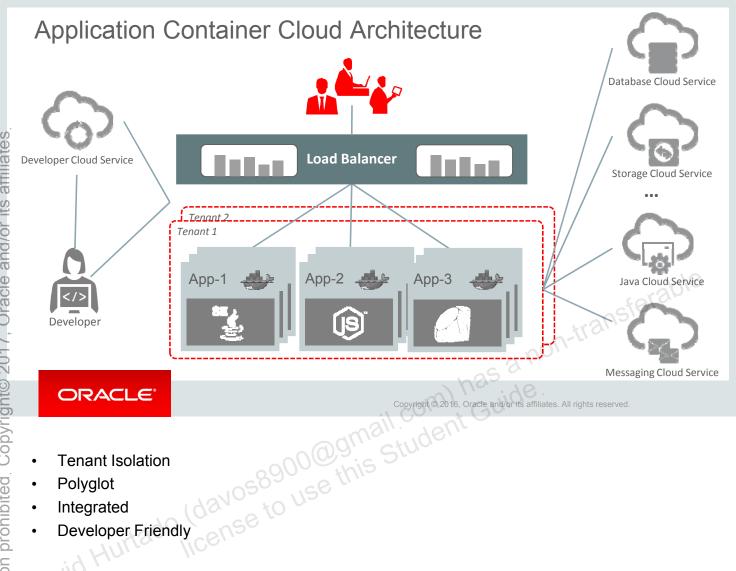
- All application binaries
- All required libraries
- Binaries of any container/embedded container
- Images files
- HTML files

Copyright © 2016, Oracle and or its affiliates. All rights reserved. Everything you'd need to run your application on a virgin machine

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App-2

App-3



- **Tenant Isolation**
- Polyglot
- Integrated
- **Developer Friendly**

Load Balancer

Fully automated—no user management required
Scale out or in and application instances are automatically registered/unregistered

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Vanity URL support (upcoming) will allow installation of certificates



Complete, Integrated Development Platform—as a Service

Application Lifecycle Management

Team Management

Entitlement with all Application Container Cloud services

Developer Cloud Service - Easy Adoption/Integration

Pre-integrated development technologies in the cloud Standards Based

• Git, Maven, Hudson, Ant, Grunt, Gulp, etc.

Built-in IDE Integration

• Eclipse, NetBeans, JDeveloper

Flexible Source Location

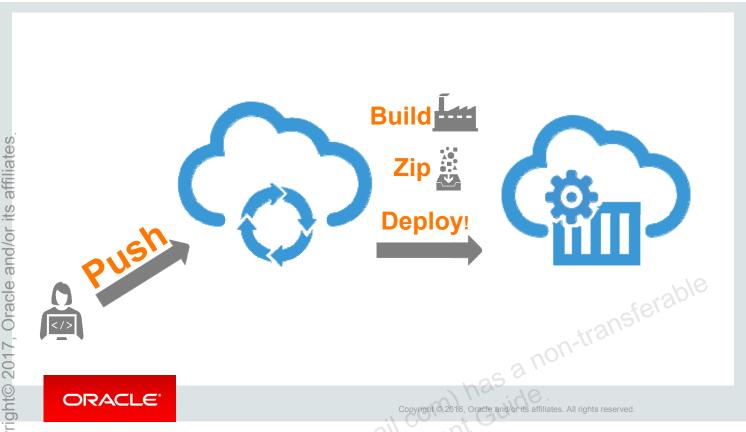
Hosted Git or GitHub

Choice of Deployment Target

Oracle Cloud or on-premise







Rather than build on-premise, use DevCS to perform continuous build, test, and deployment.

Application Container Cloud Service Advantages













- Integrated enterprise ecosystem and services from IaaS to PaaS and SaaS
- Java SE Advanced completely *unique* and unavailable on any other a non-transferable cloud platform
- Developer Cloud Service included and integrated



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Summary

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