

Safe Harbor Statement

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Program Agenda

- Challenges Facing Development Organizations
- Developer Cloud Service Overview
- 3 Demo
- Developer Cloud Service A Use Case



Why Move to the Cloud?

Better applications developed faster cheaper



Development Organization Challenges - Costs

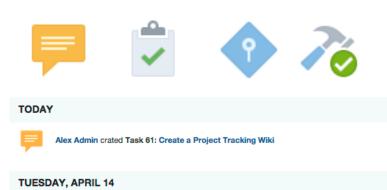
- Acquire hardware and software
- Setup and install components
- Connect components
- Configure IDEs
- Maintain and upgrade versions
- Connect to deployment platform





Development Organization Challenges - Process

- Achieving build process agility
- Producing better applications
- Streamlining deployment
- Managing teams and developers
 - Tracking and reporting
 - Team communication
 - Workload management and prioritization





1 WEEK AGO



April 9, 2015 6:08 PM -0400

Tuesday at 5:30 PM -0400

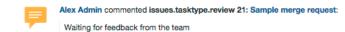
21 minutes ago



April 9, 2015 6:01 PM -0400



April 9, 2015 6:01 PM -0400



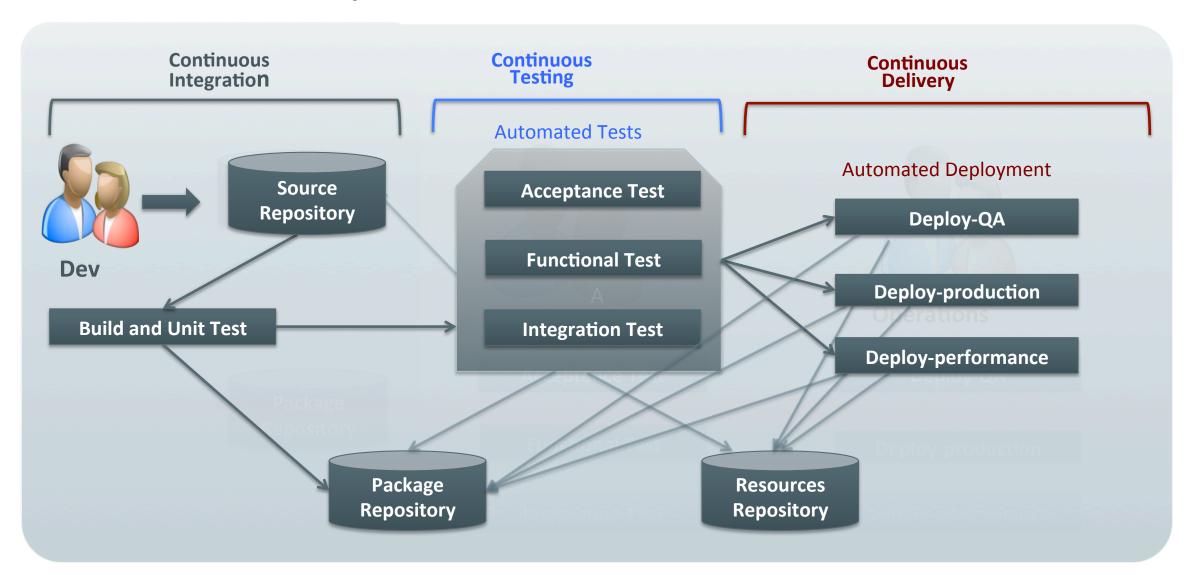
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Modern DevOps





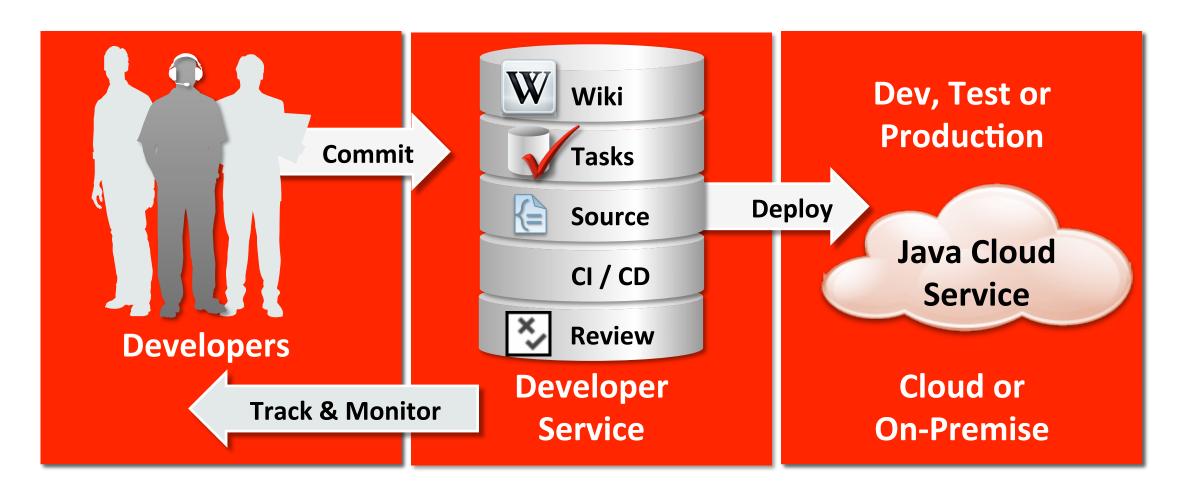
The Ideal Solution

- Integrated DevOps solution
- Quick startup time and easy provisioning
- Minimal maintenance costs
- Informative tracking of development activities
- Seamless deployment
- Flexible cloud or on-premise





Developer Cloud Service: Bringing it All Together





Developer Cloud Service: What It Is

- Development Platform provided as a Service
- Application Lifecycle Management
- Team Collaboration & Management
- Delivery Management



Source Control Management



Issue Tracking



Continuous Integration

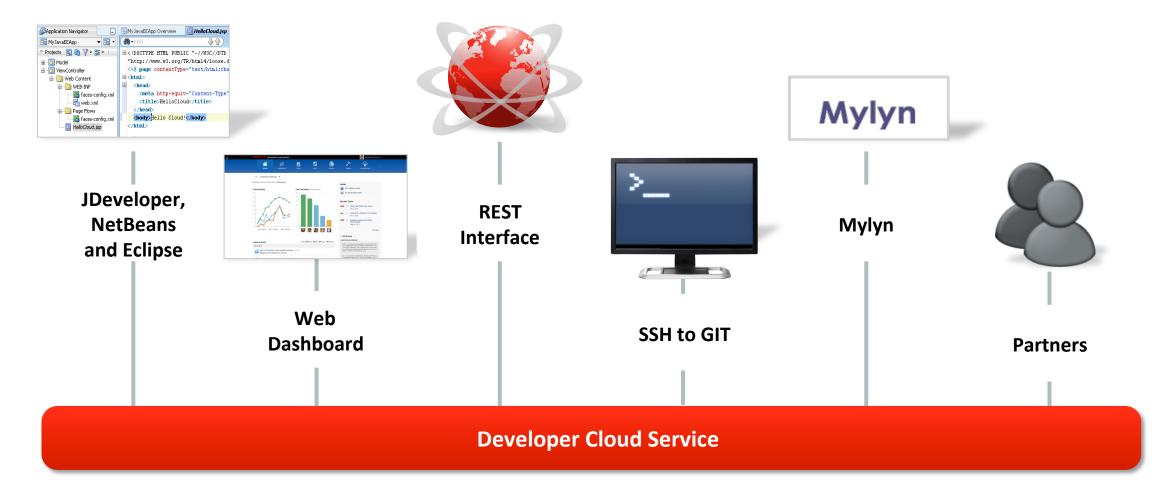




bit.ly/HOL10381 cloud.oracle.com
Launch Eclipse



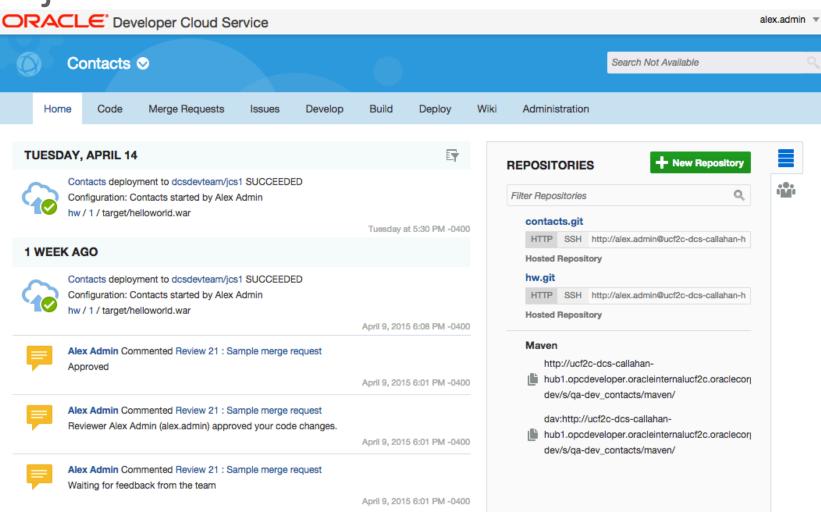
Developer Cloud Service - Interfaces





Manage Your Projects

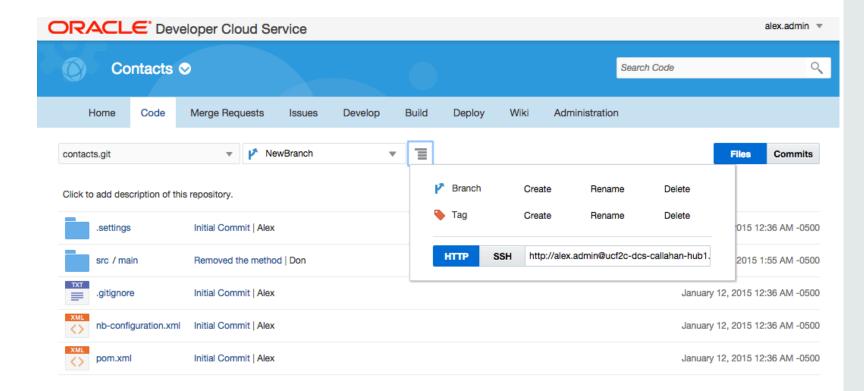
- Activity Stream
- Git Repositories
- Maven Repository
- Team Members





Version Your Code With Git

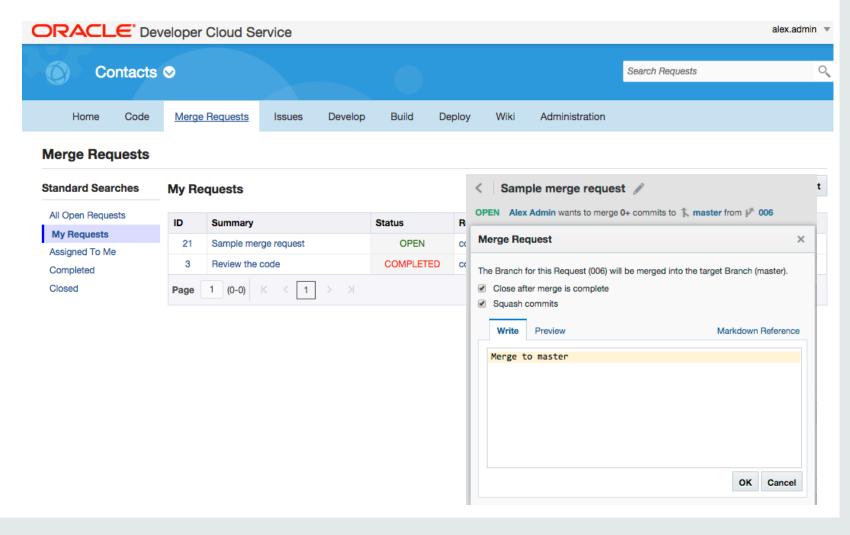
- Automatically provisioned
- Connect from any IDE
- Command line accessible
- Integrate with GitHub





Review Peers Code

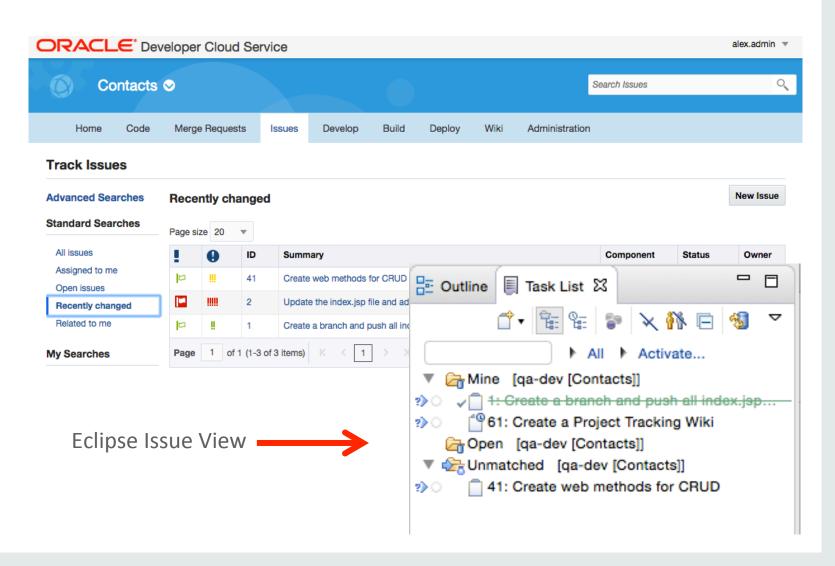
- Create Code Reviews
- Invite Team Members
- Collaborate on Reviews
- Accept / Reject / Iterate Reviews
- Comment on Code
- Merge Code
- Merge Conflict Resolution





Track Project Issues

- Track Requirements/Bugs/ERs
- Assign to team members
- Integration with MyLyn in IDEs

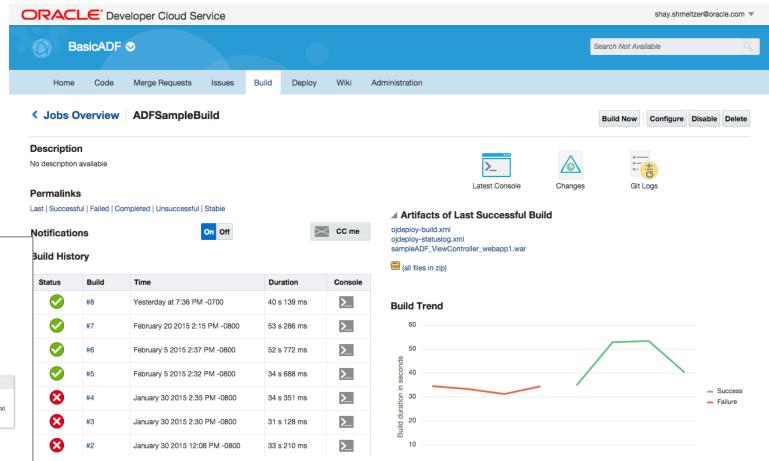




Automate Project Builds

- Maven
- Ant
- Event based automation
 - Code check-in

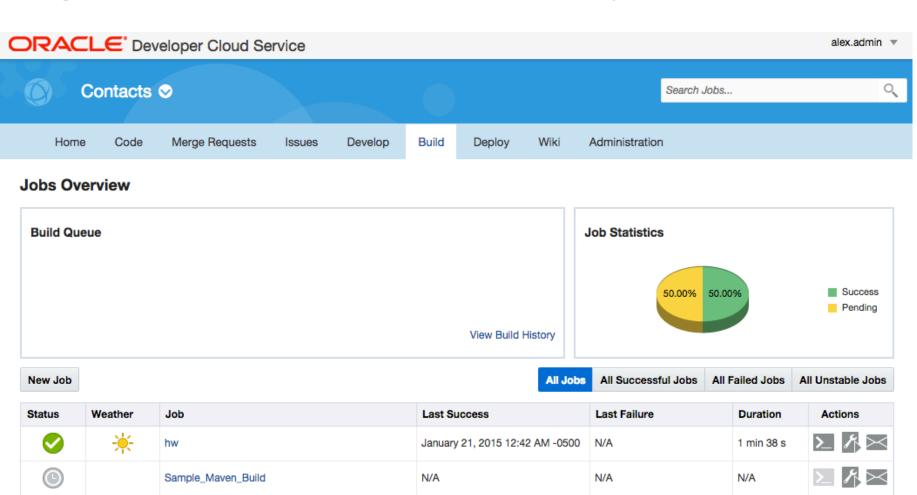






Continuous Integration / Continuous Delivery

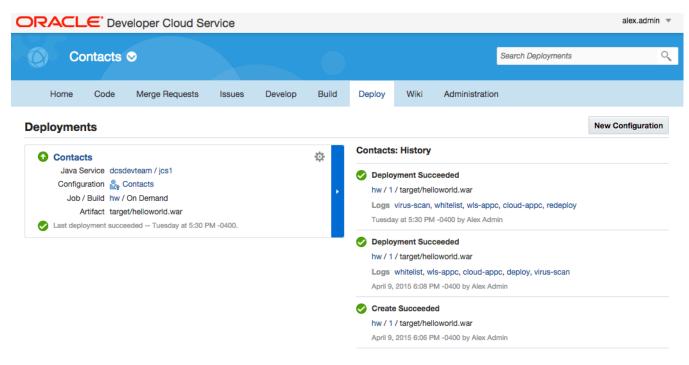
- Build status by job
- Create new jobs
- View build history
- Save views
- Executor active view





Simplified Application Deployment

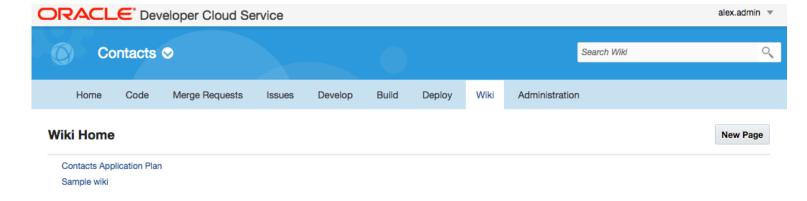
- Create deployment configurations
- Start/Stop a deployment
- Redeploy/Un-deploy applications
- In the cloud or on-premise deployment





Share Information Through Wikis

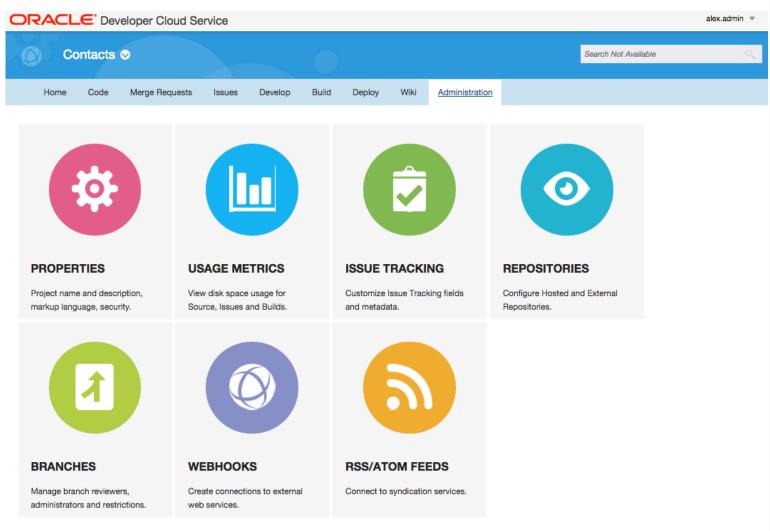
- Create a new project wiki
- Collaboration through project specific wiki
- Content management
- Wiki markup of choice





Administer Your Projects

- Manage Project Properties
- Analyze Usage Data
- Customize Issue Tracking
- Configure Git Repositories
 - Hosted & External
- Manage Branches
 - Administrators & Restrictions
- Create Connections to External
 Web Services
- Connect to Syndication Services





Developer Cloud Service

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 Java Cloud Service automatically
- Workflow ensures build & test

Integrated With IDEs

- JDeveloper
- Eclipse
- NetBeans



Developer Cloud Service



DEMO



Source Control Management



Issue Tracking

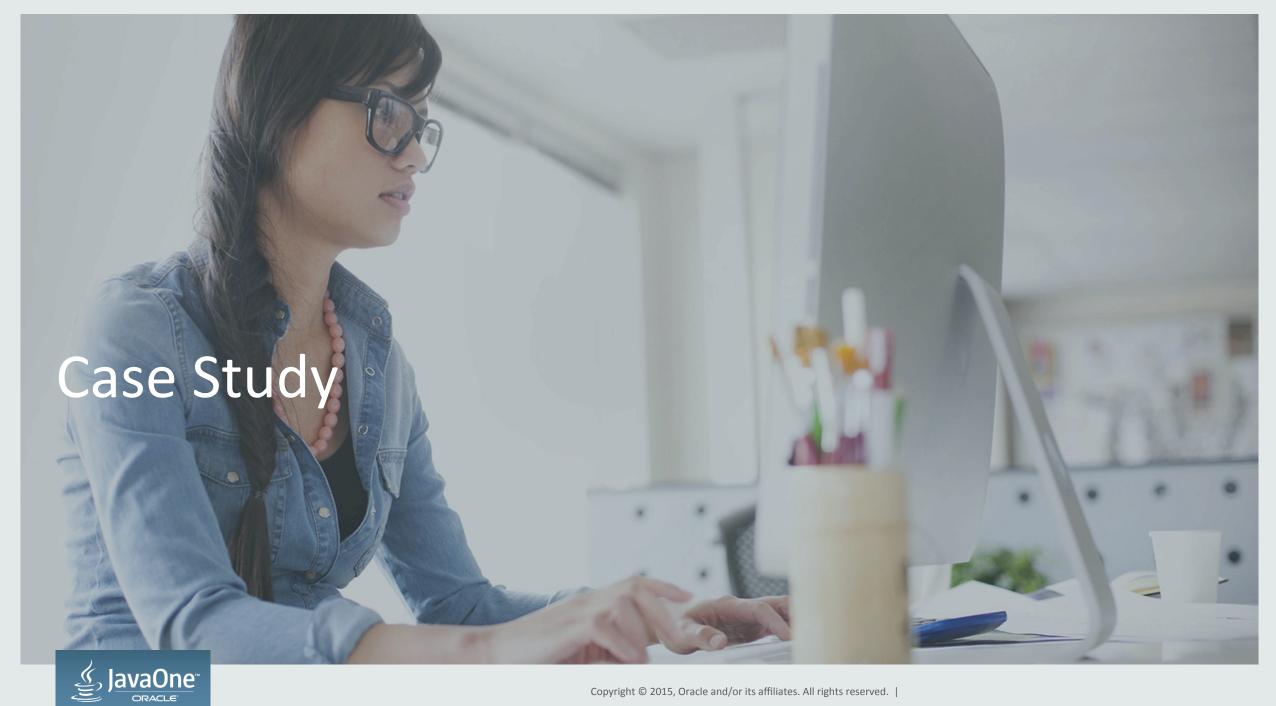


Continuous Integration



Wiki Collaboration





Team Overview – DevCS Development Team

- Distributed team of > 145 developers
- Thousands of lines of code
- Scrum methodology running 2 week sprints
 - Each sprint delivers production ready builds
- Uses Developer Cloud Service to manage all Development Operations (DevOps)



Source Management

- 27 Git repositories
- 1 Project for Developer Cloud Service
 - Represents many Git repositories for each product component and/or subcomponent
 - Issue tracking spans project
- Logically separate code represents a component and has it's own Git repository
 - Versioned and branched independently



Merge Process – Merge Requests

- New features / bug fixes occur on a feature branch created by a developer
- Once feature / bug fixes are complete, merge request is created with target of master on component repository
- Default reviewers on a component repository feature branch
- Developer can add additional reviewers
- Code is reviewed
 - Iterated over based on reviewer comments -> Approved/Rejected
- Merge is initiated on Approved code
 - Every check-in that's merged initiates a build



Build Process

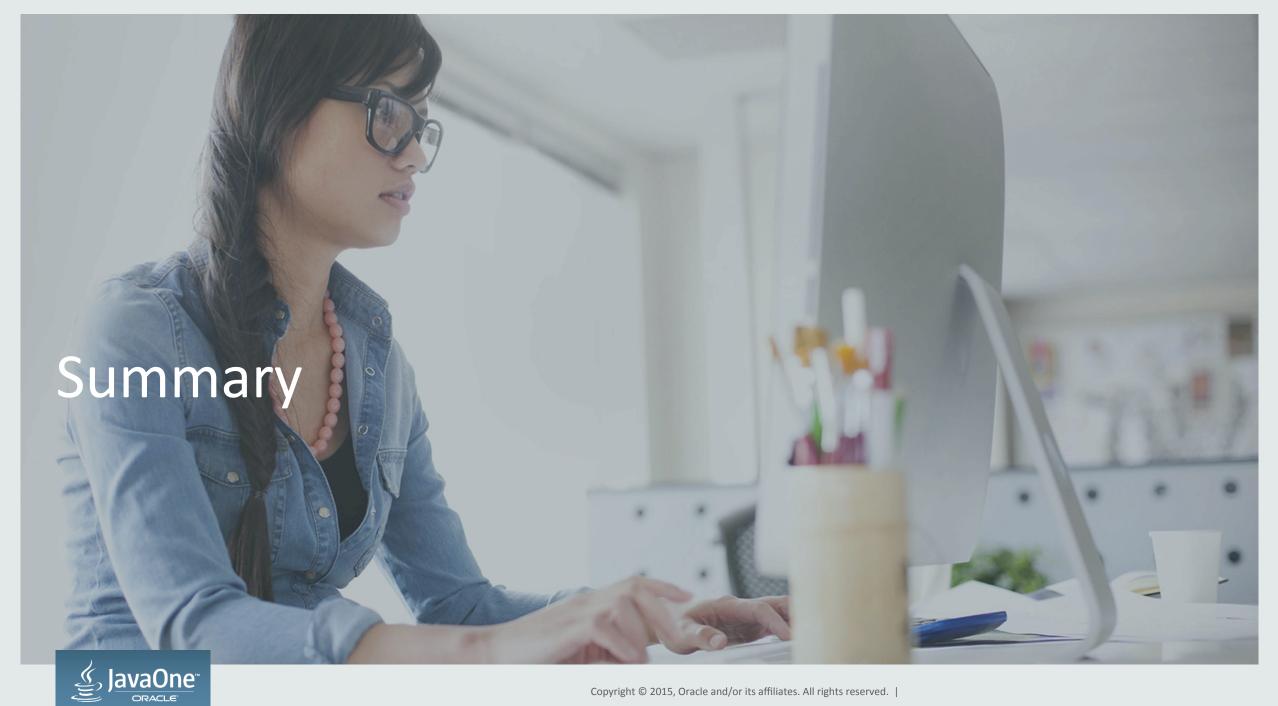
- Builds (In addition to check-in builds) Development
 - 2 times a day an integration build is initiated
 - Builds all Git repositories for a consistent stripe in time
 - Build is deployed to VMs running in Cloud (Development Staging Env.)
 - Downstream job is initiated running functional test (selenium suite tests) against env.
- Builds Production Candidates
 - Master is branched every 2 weeks and a Build is initiated
 - Deployed to a Production Candidate VM in Cloud
 - Selenium Tests run against Production Candidate VM in Cloud
 - Manual QA against Production Candidate VM
 - If all tests pass, branch may be deployed to customer production environment



Metrics Overview

- Many feature branch builds occur on every developer merge
- 2 integration builds/day
- 2 Week Development Sprint
 - 1 automated production release build every 2 weeks
- ~1,000 transactions/day
 - Transactions include commits, builds, code review activity, merges, tasks, etc...
- 145 Developers
- 27 Git repositories
- 1 Maven repository



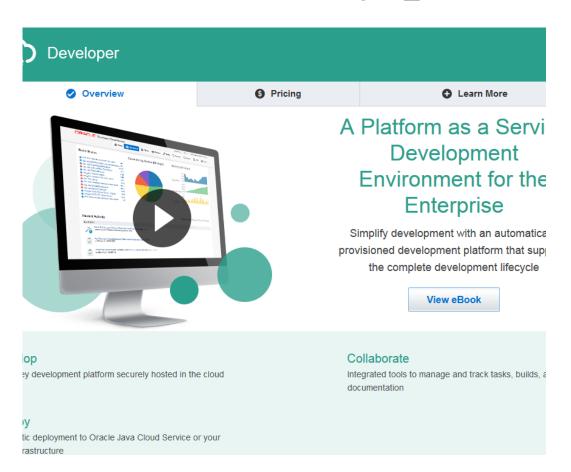


Developer Cloud Service Value Proposition

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



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Learn More

What	When	Where
HOL - Improved Development Lifecycle, Team Collaboration, and DevOps in the Cloud	Mon, 5:00	Hotel Nikko – Mendocino I/II
Oracle Cloud Platform for Rapid Applications Development and Integration in the Cloud	Tue, 12:15	Moscone South 302
Development Operations in the Cloud: A Use Case and Best Practices	Tue, 5:30	Parc 55 – Powell I/II
HOL - Improved Development Lifecycle, Team Collaboration, and DevOps in the Cloud	Wed, 2:45	Hotel Nikko – Mendocino I/II
DevOps for Mobile in the Cloud	Thu, 12:00	Moscone South 304



