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Modern Business in the Cloud

Using Oracle Cloud to Power Your
Application Development Lifecycle

Oracle Developer Cloud Service Product Team

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Using Oracle Cloud to Power Your Application Development Lifecycle

In this lab you'll create a new project with an initial repository in Oracle Developer Cloud Service (ODevCS) Web Dashboard. You will then import a project from archive into Oracle Enterprise Pack for Eclipse (OEPE) IDE. This is a simple Java EE SOAP web service application that will be the basis for exploring ODevCS both within the web dashboard and through integration within Oracle Enterprise Pack for Eclipse.

In the first part of the lab, you'll log in to your ODevCS web instance and start with creating a project and selecting a project with an "Initial Repository" option. After creating the project you'll explore the features of ODevCS and then proceed to create a couple tasks that you will activate and complete within the IDE (OEPE). As part of this lab you'll build this project using Hudson Continuous Integration Tooling within ODevCS and automatically deploy the application to Oracle Java Cloud Service - SaaS (OJCS-SX). You will then validate the jsf web page.

Why ODevCS? In recent years the world of application development has adopted new methodologies that aim to improve the quality and speed in which applications are being delivered. The introduction of innovative development approaches such as test driven development and agile development gave rise to a set of new techniques and tools that enable those methodologies. Tools such as automatic build utilities combined with continuous integration platforms, as well as enhanced collaborative tools such as wikis and code review utilities aim to simplify the adoption of these new methodologies. However, for many IT shops setting up these environments and maintaining them was difficult and cost prohibitive, resulting in many organizations sticking to the old way of building applications. Now Oracle is aiming to change this by introducing a new simpler way to adopt modern DevOps and tools with a cloud based offering known as ODevCS.

Requirements:

For this lab, all the required software is provided. If you do not finish this lab you can run through it at your convenience from home. All you need to is the following:

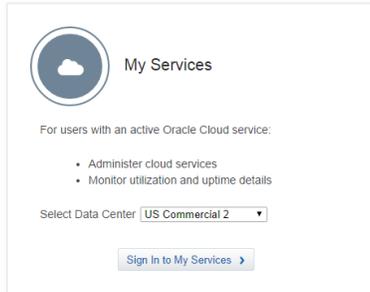
1. Create an Oracle Java Cloud Service SaaS Extension account [here](#). You will be provided with a 30 day free access account along with an entitlement for Oracle Developer Cloud Service and Oracle Database Cloud Service.
2. [Download and install Oracle Enterprise Pack for Eclipse.](#)
3. [Download and install Java SDK 8. Grab the latest update.](#)

Step 1: Create a project with an initial repository

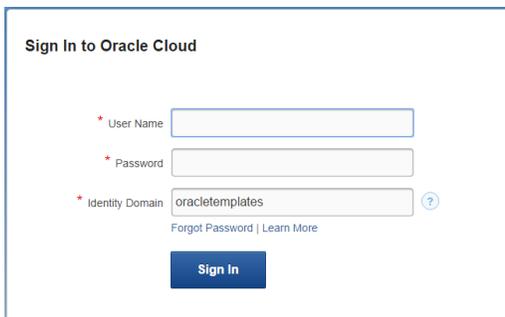
1. Begin by logging in to the ODevCS web dashboard.

<https://cloud.oracle.com>

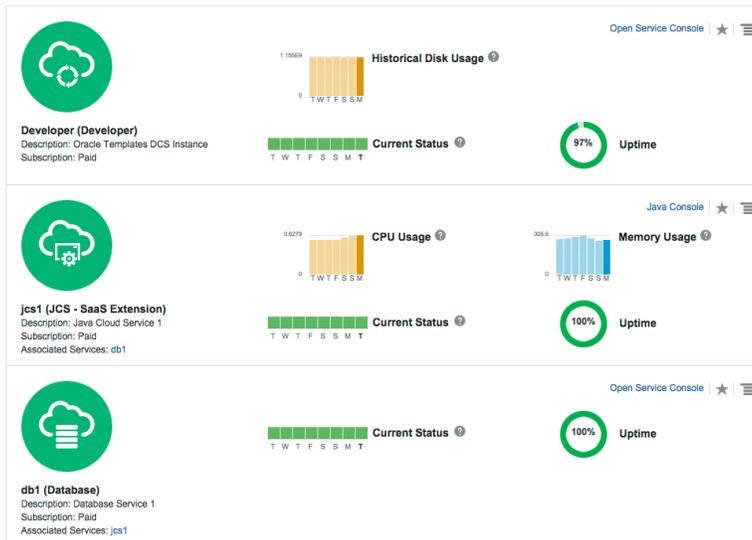
2. Select Data Center “US Commercial 2” and proceed to sign in to the Cloud services.



3. Provide the “User Name”, “Password”, and “Identity Domain” that was provided by the lab instructor. **Note:** There may be a prompt to change the password the first time logging in.



4. Once authentication is complete, a Dashboard will be displayed showing all active platform services. Select the “Developer (Developer)” service link.



5. Select the “Open Service Console” button. This opens the ODevCS Projects view.

Service Details: Developer (Oracle Developer Cloud Service) Open Service Console

OVERVIEW (for June 2015)

- 97% Uptime
- 0 Outages

METRICS (as of 40 minutes ago)

- 1,154,611,870 Current Disk Usage
- 0 Hudson Executors In ...

Service Status - June 2015 Month View | Quarterly View | Year View Current Month

Legend: Before Activation Service Up Planned Outage Service Incident

Additional Information

Plan: Standard Developer Service	Version: 15.2.0.0.0
Service Start Date: 28-Aug-2014	Status: Active
Subscription ID: 501840734	Service Instance URL: https://developer.us2.oracle...
Account: DevOps (US)	Service REST Endpoint: Not available
CSI Number: Not available	
Data Center: US Commercial 2	

6. Select “New Project” button.

ORACLE Developer Cloud Service

Select an existing project or create a new one.

Member **Favorites** **All** **New Project**

Filter Projects

- ADF12c**
Sample ADF12c App
- Contact Application**
No description
- Grant Team**
No description
- HubGroupContactsDemo**
Simple project from template (Web Service)
- JDevTest**
Simple project to illustrate JDev integration
- MacyTest**
Simple Test App
- MDWSTest**
Based on a template

DevOps Sessions at OOW and JavaOne

Robbrecht van Amerongen of AMIS Technology has provided a nice summary of sessions to attend at OOW and JavaOne this year. Check it out here.

7. Give the project a Name such as “OOW Contacts Soap Service” and Description similar to the following: “OOW Contacts SOAP Service created with an Initial Repository”. The Privacy setting will be set to “Private” by default. Select the “Next” button.

The screenshot shows the 'New Project' dialog box with the 'Details' tab selected. The progress bar at the top indicates the current step. The 'Project Details' section contains the following fields:

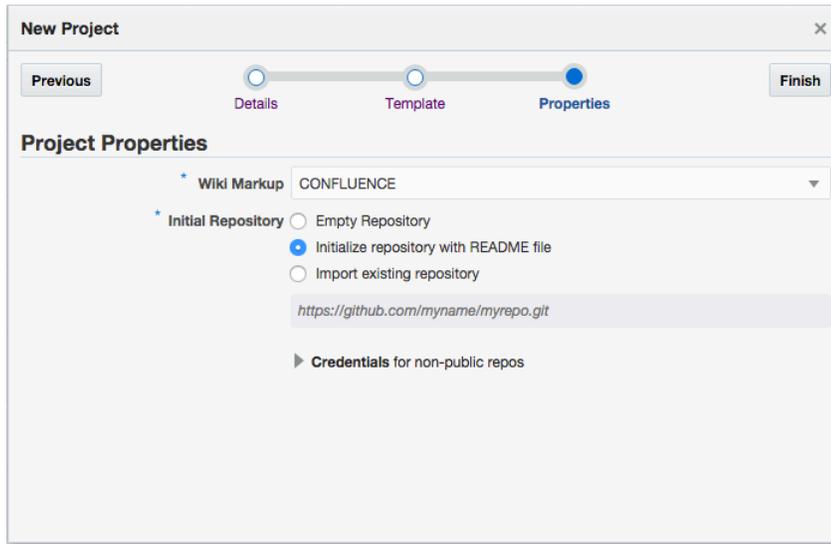
- Name:** OOW Contacts Soap Service
- Description:** OOW Contacts Soap Service created from an Initial Repository
- Security:** Private (selected), Shared
- Preferred Language:** English - English

8. Select the “Initial Repository” option followed by the “Next” button.

The screenshot shows the 'New Project' dialog box with the 'Template' tab selected. The progress bar at the top indicates the current step. The 'Template' section contains the following options:

- Empty Project:** Create a project with no preconfigured settings or content.
- Initial Repository:** Create a project with initial repository (empty, with readme.md file or imported). (This option is highlighted in blue.)
- Simple SOAP Service:** No description
- TestTemplate:** No description
- WebLogic Deployment Sample:** A simple getting started project that demonstrates using the WebLogic Maven Deployment goals.

8. Select the preferred "Wiki Markup". Select the "Create Project" button.



New Project [Close]

Previous [Progress: Details, Template, Properties] Finish

Project Properties

- * Wiki Markup: CONFLUENCE
- * Initial Repository:
 - Empty Repository
 - Initialize repository with README file
 - Import existing repository

`https://github.com/myname/myrepo.git`

► Credentials for non-public repos

9. Project services are now being provisioned and can take up to a minute. Notice the feature indicators turning green as each of the features are being provisioned followed by the web dashboard being displayed.



Project OOW Contacts SOAP Service 1 is being provisioned.

Provisioning may take up to several minutes.
Please wait until all modules are provisioned.

Build Code Deploy Issues Maven Merge Requests Wiki

- Explore the various Features of ODevCS. The “Home” tab for instance provides details about the newly created project including the location of the Git source code repositories as well as the Maven repository. Notice new activities within the project as they occur. In addition, team management is available here as well as the ability review statistics on the active project.

The screenshot shows the ODevCS Home page. On the left, under the 'TODAY' section, there are two activity items: 'System pushed cd11d20c to master in oow-contacts-soap-service-1.git' and 'System created hosted repository oow-contacts-soap-service-1.git'. On the right, there is a 'REPOSITORIES' section with a '+ New Repository' button and a search bar. Below the search bar, there are two repository entries: 'oow-contacts-soap-service-1.git' (Hosted Repository) and a Maven repository. A red arrow points to a 'Manage Team / Review Stats' link next to the repository list.

- The “Code” tab provides details such as the working repository and branch as well as the ability to view files in the repository along with commits. Branches can be created here along with tags and there is also the functionality to perform diffs on code.

The screenshot shows the ODevCS Code tab. At the top, there are dropdown menus for the repository name 'developer-oracletemplates_simple-soap-service.git' and the branch 'master'. Below these are 'Files' and 'Commits' tabs. A message says 'Click to add description of this repository.' Below that, there is a list of files: 'contacts' (Initial repository from template project 'Simple SOAP Service' | Project Template, 4 minutes ago) and 'README.txt' (Initial repository from template project 'Simple SOAP Service' | Project Template, 4 minutes ago).

- The “Merge Requests” tab is where code reviews are created and assigned to reviewers to approve, reject or iterate over followed by merging a branch back into the master. All open reviews are visible here as well as all reviews historically including the ability to filter on reviews.

The screenshot shows the ODevCS Merge Requests page. At the top, there is a 'Reviews' section. Below it, there are 'Standard Searches' with options: 'All Open Requests', 'My Requests' (selected), 'Assigned To Me', 'Completed', and 'Closed'. There is a 'New Request' button. Below the searches, there is a table with columns: ID, Summary, Status, Repository, Branch, Submitter, and Created. The table is currently empty, showing 'No data to display.' At the bottom, there is a pagination bar: 'Page 1 (0-0 items) < > 1 ... > >'.

13. The “Issues” tab is where new tasks are created and assigned to team members. Searches can be performed for specific tasks with advanced search capabilities or via the standard search that’s provided.

Track Issues

Advanced Searches **Recently changed** New Issue

Standard Searches

- All Issues
- Assigned to me
- Open Issues
- Recently changed**
- Related to me

My Searches

ID	Summary	Component
No data to display.		

14. The “Build” tab is where Hudson build jobs are created, configured, builds are invoked, view build status, view build history, etc... Until a project is created and a build job is created/configured, this tab will provide limited details.

Jobs Overview

Build Queue

[View Build History](#)

Job Statistics



50.00% Success
50.00% Pending

New Job All Jobs All Successful Jobs All Failed Jobs All Unstable Jobs

Status	Weather	Job	Last Success	Last Failure	Duration	Actions
		contacts-build	13 minutes ago	N/A	59 s 274 ms	
		Sample_Maven_Build	N/A	N/A	N/A	

16. The “Deploy” tab allows for new deployment configurations to be created on a project. After creating a “New Configuration”, a deployment can be started, a deployment can be deleted, an application can be redeployed, a deployment configuration can be edited and/or deleted.



You currently have no deployment configurations.

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

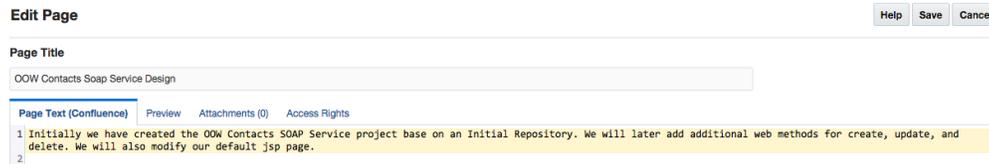


17. The “Wiki” tab allows for the creation of new Wiki pages for collaboration with members of the development team. This is a good starting point to start creating use cases and other design documents for an application.

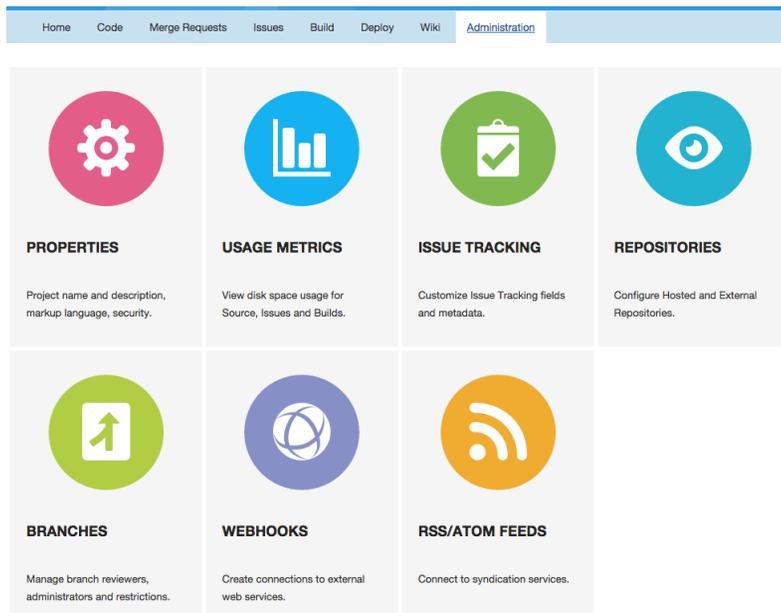
Wiki Home New Page

Welcome

18. Create a new Wiki page. Select the “New Page” button now and provide some descriptive text for the project as seen in this image. Select the “Save” button once complete.

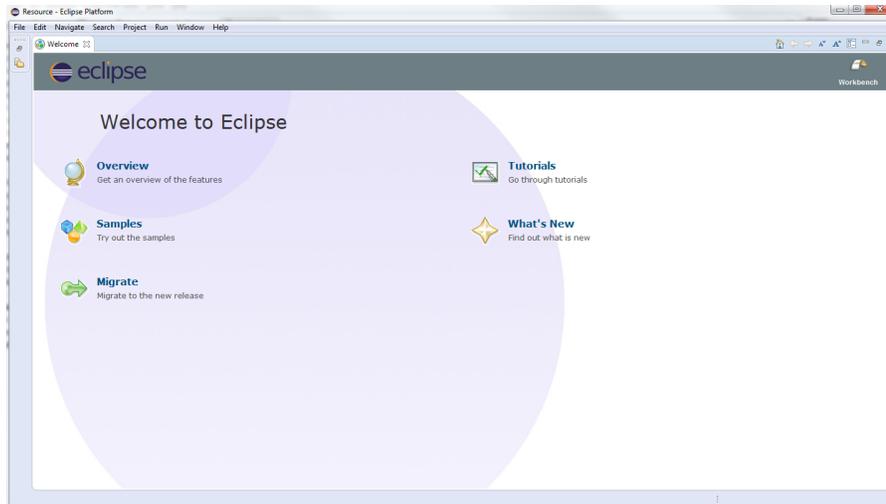


19. The “Administration” tab is where management functionality is provided for various aspects of the project including properties, usage metrics, issues, source code, merge requests, webhooks and atom/rss feeds.



Step 2: Open Oracle Enterprise Pack for Eclipse (OEPE) IDE and connect to the ODevCS instance. In this step a project will be imported into the IDE (OEPE) from an archive.

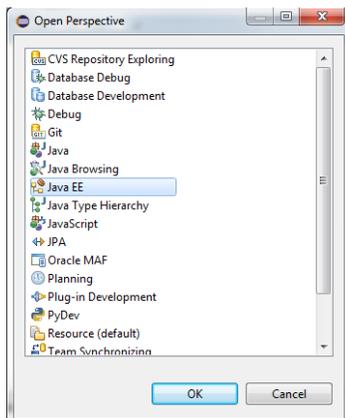
1. Open the IDE (OEPE). Look for the OEPE IDE icon on your desktop. 



2. Within the IDE (OEPE) close the “Welcome” page and switch to the “Java EE” perspective by selecting the open perspective icon on the top right of the IDE to the left of “Resource”.



3. Select the “OK” button.



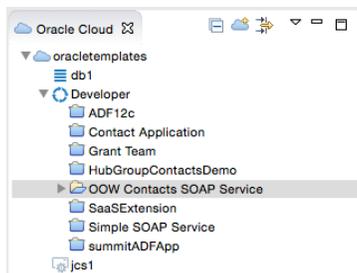
4. In the bottom left of the IDE (OEPE) there will be a cloud view, “Oracle Cloud”, where a connection to ODevCS instance can be established. Select the “Connect” link.



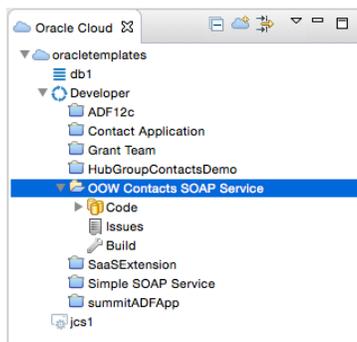
5. Enter the credentials supplied by the lab instructor and select the “Finish” button.



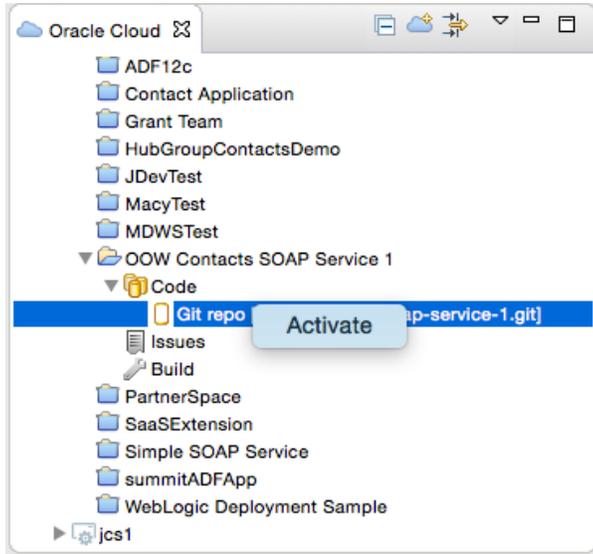
6. Expand the “Developer” tree to see projects that are available.



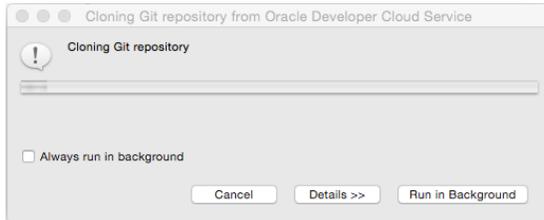
7. Right click on the “OOW Contacts SOAP Service” or the project name used earlier if different and select “Activate”.



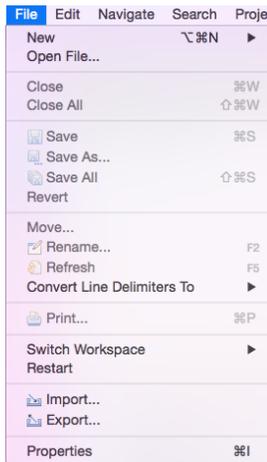
- Expand the “Code” item in the tree and right click on the Git repository. It will be the one named “[oow-contacts-soap-service.git]” and right click to select “Activate” to clone the project to the local Git repository.



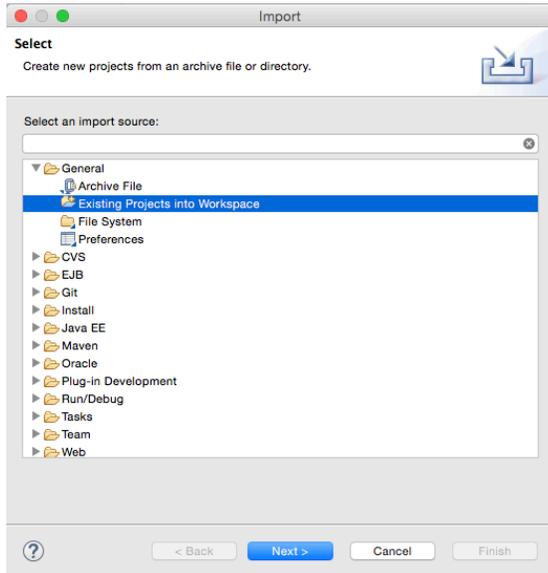
- A dialogue will appear indicating that the cloning process is running. Let it complete.



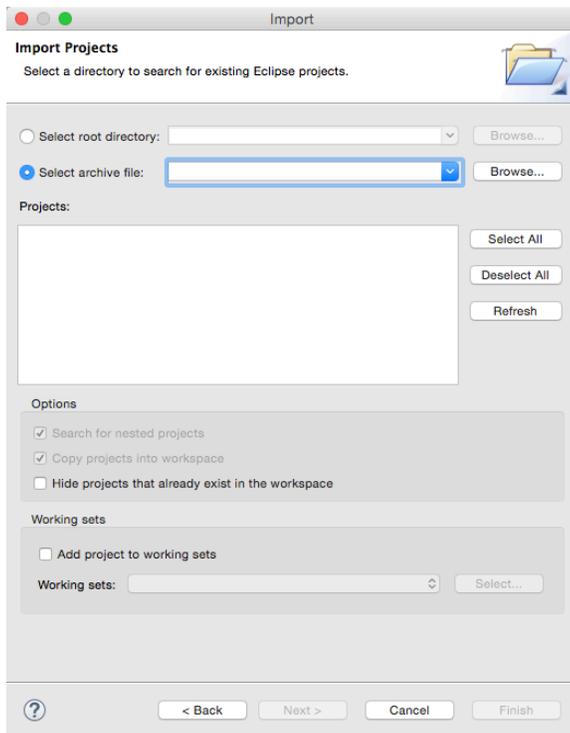
- Import the contacts.zip archive into the IDE OEPE. Select the “File” menu item followed by “Import”.



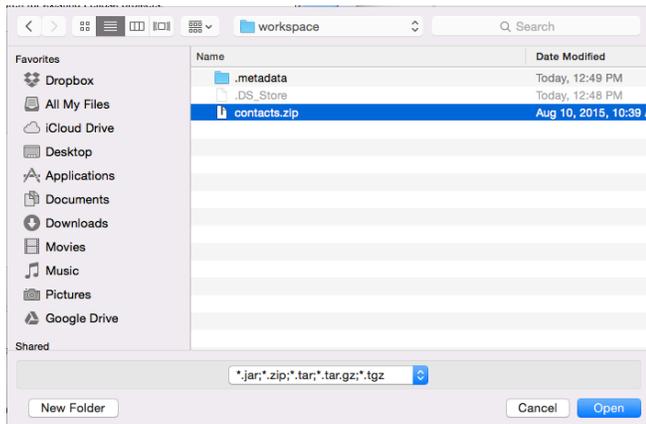
11. Expand the “General” tree and select “Existing Projects into Workspace”. Select “Next”.



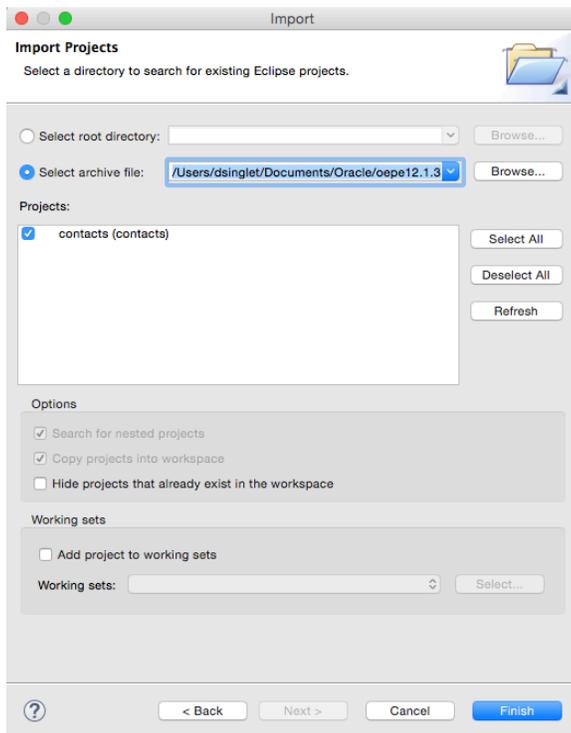
12. Select the “Select archive file:” radio item.



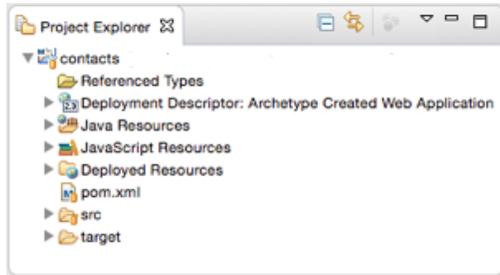
13. Select the “Browse” button and select the “contacts.zip” archive. This archive should be located in “C:\oepe12.1.3.8\workspace” directory. Select the “Open” button.



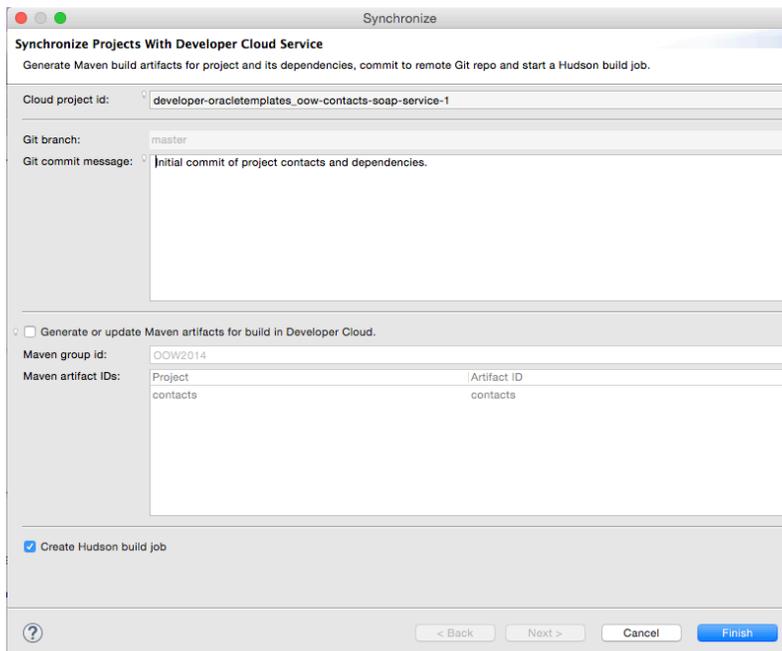
14. Select the “Finish” button to import the archive into the IDE (OEPE).



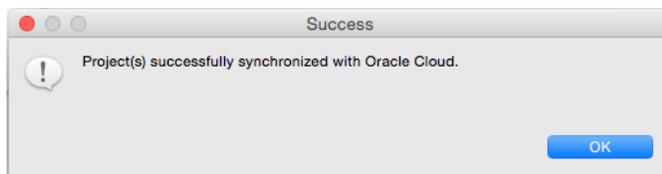
15. The contacts project is now successfully imported into the IDE (OEPE) and should resemble the following image as seen in the “Project Explorer” view window.



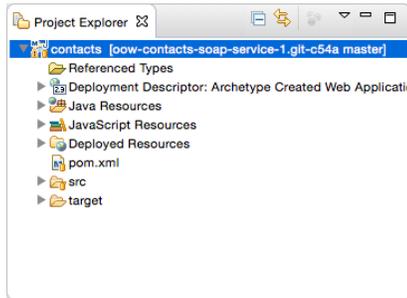
16. Select the “contacts” project in the “Project Explorer” view window of the IDE (OEPE) and drag-n-drop it on the “Git repo [oow-contacts-soap-service.git]” in the “Oracle Cloud” view window. This synchronizes the contacts project with ODevCS. Essentially it pushes the project content into the Git repository in ODevCS as well as versions it in the local Git repository. Go with the defaults here and select the “Finish” button.



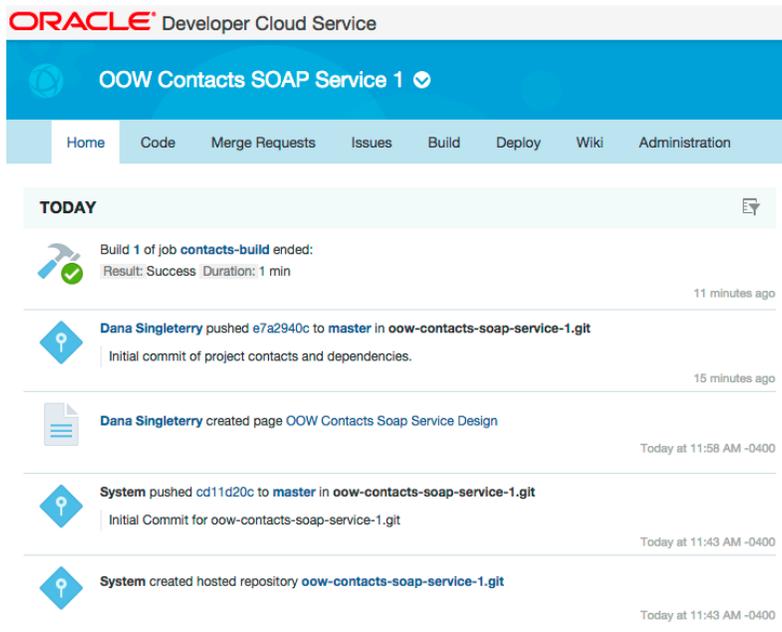
17. Wait for process to complete.



18. Notice in the “Project Explorer” view window that the “contacts” project now indicates that it is versioned.



19. Go to the “Home” tab in the ODevCS Web Dashboard browser and examine the activity feed. Notice the activity for versioning the “contacts” project from the IDE (OEPE). Also notice that a build has been completed successfully. The build was already configured in Maven pom.xml within the contacts project in the IDE (OEPE).



ORACLE Developer Cloud Service

OOW Contacts SOAP Service 1

Home Code Merge Requests Issues Build Deploy Wiki Administration

TODAY

-  Build 1 of job **contacts-build** ended:
Result: Success Duration: 1 min
11 minutes ago
-  **Dana Singletery** pushed e7a2940c to **master** in **oow-contacts-soap-service-1.git**
Initial commit of project contacts and dependencies.
15 minutes ago
-  **Dana Singletery** created page OOW Contacts Soap Service Design
Today at 11:58 AM -0400
-  **System** pushed cd11d20c to **master** in **oow-contacts-soap-service-1.git**
Initial Commit for oow-contacts-soap-service-1.git
Today at 11:43 AM -0400
-  **System** created hosted repository **oow-contacts-soap-service-1.git**
Today at 11:43 AM -0400

Step 3: Create a new issue within the browser (ODevCS Web Dashboard) and resolve the issue within the IDE (OEPE).

1. Select the “Issues” tab within the ODevCS Web Dashboard browser.



2. Select the “New Issues” button to create a new issue. Enter details similar to these provided here. For “Owner”, assign the issue to user provided by the lab instructor. Select the “Create Issue” button once complete.

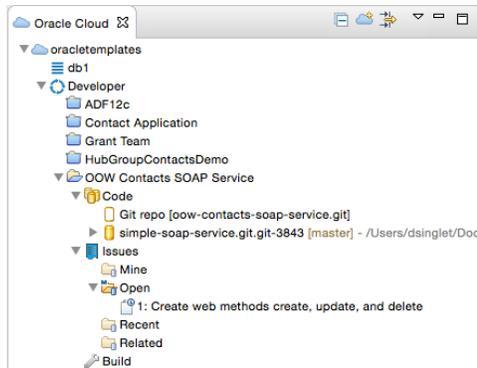
The 'New Issue' form contains the following fields and values:

- Summary:** Create web methods create, update, and delete
- Type:** Task
- Status:** New
- Severity:** Minor
- Priority:** Normal
- Tags:** (empty)
- Details:**
 - Product:** Default
 - Component:** Default
 - Release:** 0.0.1
 - Found In:** (empty)
 - Sprint:** 1
 - Due Date:** 06/11/15
 - Estimate:** 1
- People:**
 - Owner:** Dana Singletery
 - CC:** (empty)
- Description:** Simple task to add the web methods create, update, and delete for contacts.

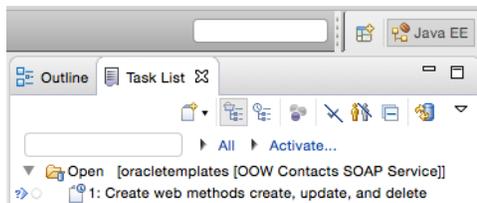
'Create Issue' and 'Cancel' buttons are located at the bottom right of the form.

- The first task has now been created and can be edited with the ability to post comments as desired.

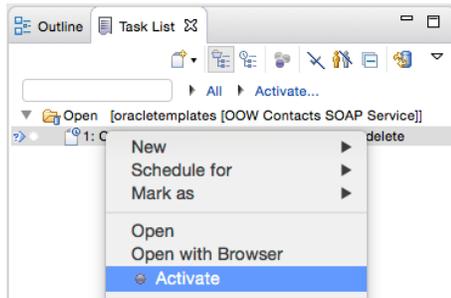
- Now go to the “Oracle Cloud” view in the lower left of the IDE (OEPE) and right click on “Issues” and select “Activate”. Right click on “Open” tasks in the tree and select “Activate” and expand it to see the task that was just created in the ODevCS Web Dashboard browser.



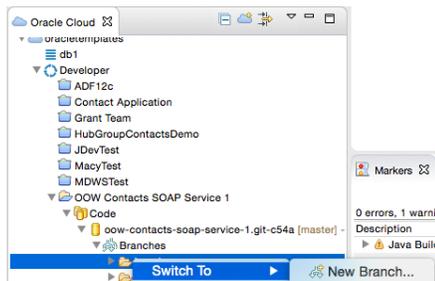
- There are various ways to work with issues so now within the IDE (OEPE) as opposed to working within the “Oracle Cloud” view in the bottom left corner of the IDE (OEPE), let’s take a look at the “Task List” in the upper right corner of the IDE (OEPE) beneath “Resources”. Expand the Open tree table if needed.



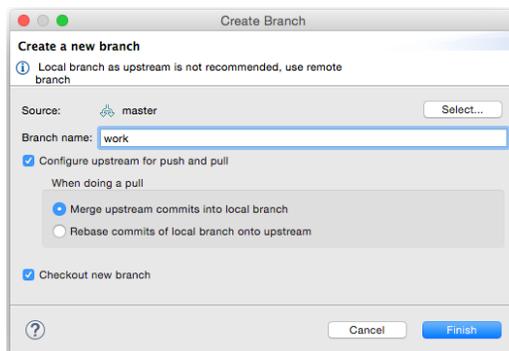
6. Right click on the “Create web methods create, update, and delete.” and select “Activate” to activate the task.



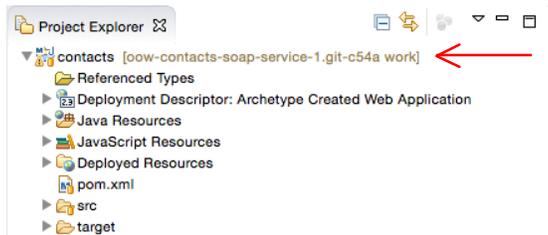
7. Create a branch named “work”. This will become the active branch to make code changes. Later, a code review will be created followed by a merge of the “work” branch back into the “master”. In the “Oracle Cloud” view in the lower left of the IDE (OEPE) expand “Code | oow-contacts-soap-service.git | Branches”. Right click on “Local” and select “Switch To | New Branch”.



8. The “Create a new branch” wizard will appear. Provide a “Branch name” of “work” and select the “Configure upstream for push and pull”. Click the “Finish” button when complete.



- The new branch “work” now becomes the working branch as can be seen from the “Project Explorer” in the IDE (OEPE).

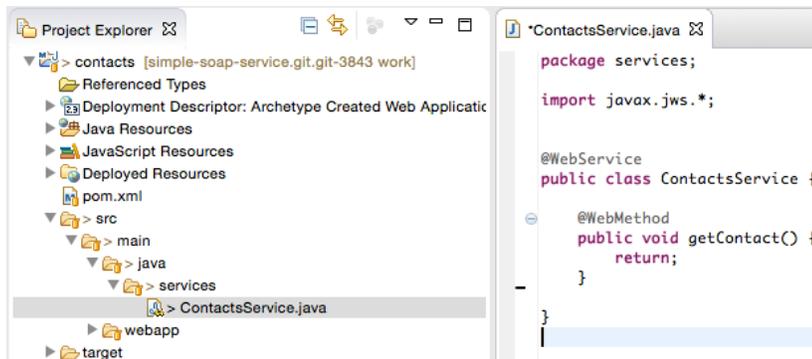


- Open the “ContactsService.java” object within the “Project Explorer” in the IDE (OEPE) and add the web methods create, update, and delete. The “ContactsService.java” object is located within the tree structure “src | main | java | services”. Copy the following code and paste it into the “ContactsService.java” object and be sure to save the application.

```
@WebMethod
public void createContact() {
    return;
}
```

```
@WebMethod
public void updateContact() {
    return;
}
```

```
@WebMethod
public void deleteContact() {
    return;
}
```



11. The code should now look like the following:



```
package services;

import javax.jws.*;

@WebService
public class ContactsService {

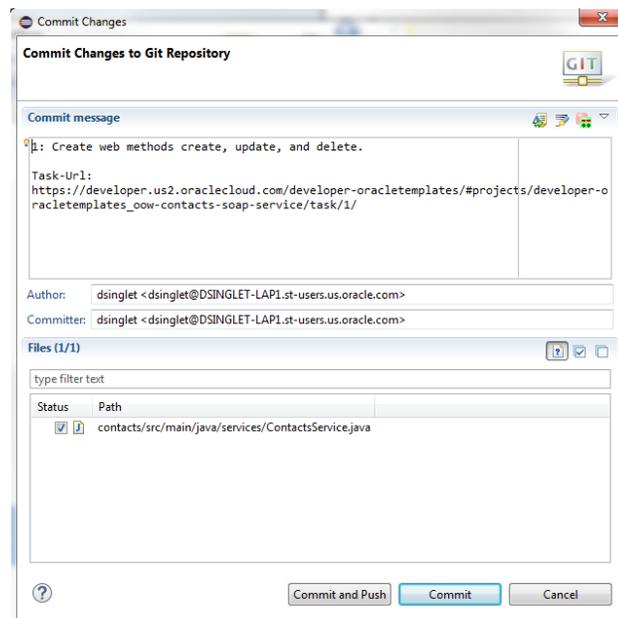
    @WebMethod
    public void getContact() {
        return;
    }

    @WebMethod
    public void createContact() {
        return;
    }

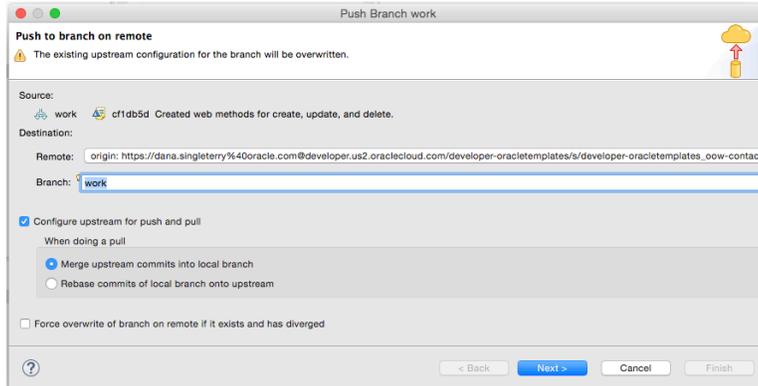
    @WebMethod
    public void updateContact() {
        return;
    }

    @WebMethod
    public void deleteContact() {
        return;
    }
}
```

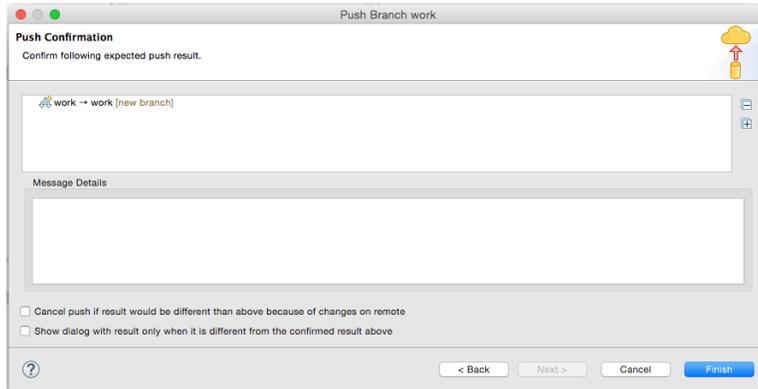
12. Now that the methods have been added as requested within the task that was created, commit the changes to the local Git repository and then push the changes to the remote repository. This can be done in one step within the IDE (OEPE). Right select on the “ContactsService.java” object within the “Project Explorer” and select “Team | Commit...”. Provide a “Commit Message” similar to “Created web methods for create, update, and delete.” Select the “Commit and Push” button to commit and push the changes to the remote repository.



13. A “Push to branch on remote” wizard will be invoked. Go with the defaults as indicated in this image and select the “Next” button to continue.



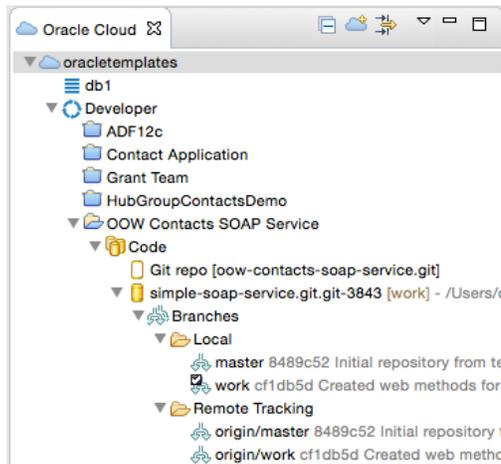
14. In the next step of the wizard go with the defaults and select the “Finish” button to complete the source push to the remote repository in the cloud.



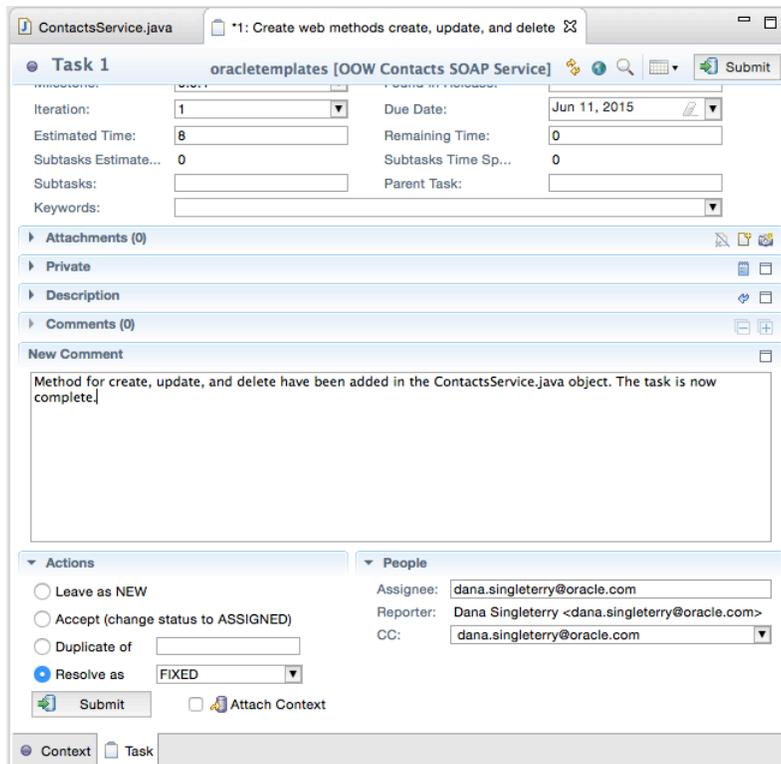
15. A dialogue will be provided with the results of the commit / push operation. Select the “OK” button to exit the notification.



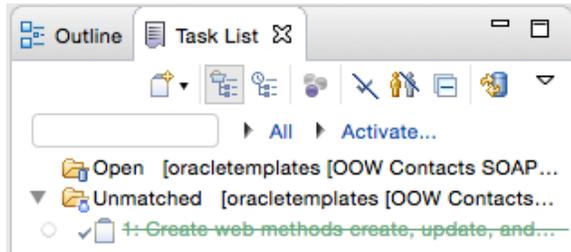
16. Take a look at the “Oracle Cloud” view in the IDE (OEPE) and notice that the “work” branch is in fact the active branch and that it has been created in the remote repository in the cloud.



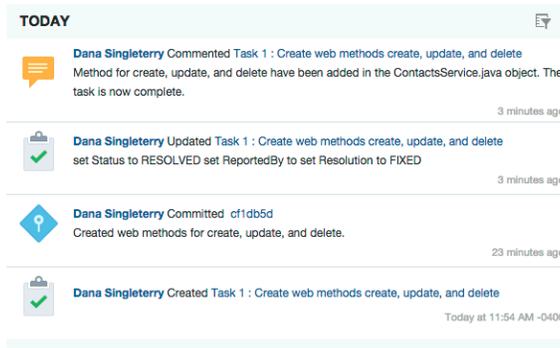
17. Now that the changes have been committed and pushed to the Git repository, the task needs to be updated. Right click on the task in the “Task List” within the IDE (OEPE) and select “Open”. This opens the task within the IDE (OEPE) so that it can be updated as resolved. Add a new comment such as “Method for create, update, and delete has been added in the ContactsService.java object. This task is now complete.” Select the radio button “Resolve as” and select “FIXED” from the list-of-values. Select the “Submit” button to update this task.



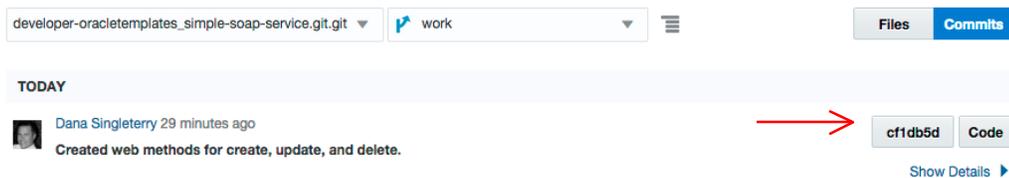
18. Now that this task has been completed, take a look at the “Task List” tab in the (OEPE) and notice that this task has been flagged as complete.



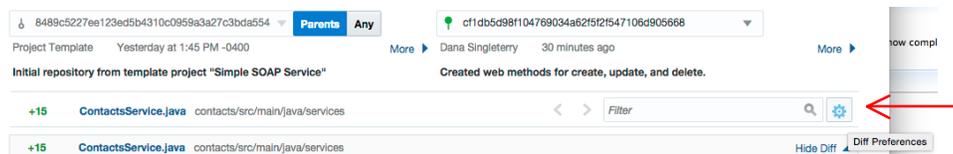
19. Go back to the ODevCS Web Dashboard browser. Select the “Home” tab to see the new activity stream with the updates for the previous task.



20. Select the “Code” Tab, “work” branch and then the “Commits” button. Select the button to the left of the “Code” button.



21. Select the “Diff Preferences” icon to get a before and after (side-by-side) view of the code changes in the “ContactsService.java” object.

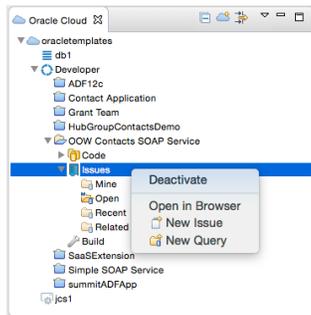


22. The diff of the “ContactsService.java” object will look something like the following image.

```
@@ -10,14 @@
10 public void getContact() {
11     return;
12 }

@@ +10,29 @@
14 @WebMethod
15 public void createContact() {
16     return;
17 }
18 @WebMethod
19 public void updateContact() {
20     return;
21 }
22 }
23 @WebMethod
24 public void deleteContact() {
25     return;
26 }
27 }
28 }
29 }
```

23. Create one more issue to update a jsp page. This time create the issue from within the IDE (OEPE). Within the “Oracle Cloud” view, in the lower left corner of the IDE (OEPE), Right click on “Issues” and select “New Issue”.



24. Provide the following details for the new issue:

Name: "Update index.jsp with new message" *or something similar*

Due Date: *Set it to the current date*

Estimated Time: 1

Description: *Enter some descriptive text*

Assignee: *Assign this task to yourself*

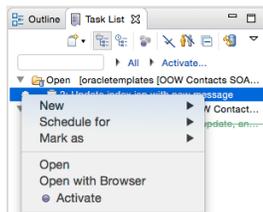
Once complete, select the "Submit" button. Notice the new issue has been created by looking at the "Task List" in the upper right corner of the IDE (OEPE).

The screenshot displays the Oracle IDE (OEPE) interface for creating a new issue. The browser tabs at the top show 'ContactsService.java', '1: Create web methods create, update, and de', and '2: Update index.jsp with new message'. The main window title is 'Task 2' and the page header includes 'oracletemplates [OOW Contacts SOAP Service]' and a 'Submit' button. The issue title is 'Update index.jsp with new message'. Below the title, the status is 'UNCONFIRMED', the creation date is 'Jun 10, 2015', and the modified date is 'Jun 10, 2015 1:28 PM'. The 'Attributes' section is set to 'Default / Default'. The 'Attachments' section shows '(0)'. The 'Private' checkbox is checked, and the visibility is set to 'This Week'. The 'Description' field contains the text 'Update welcome message'. The 'Comments' section shows '(0)' and a 'New Comment' input area. The 'Actions' section includes radio buttons for 'Leave as UNCONFIRMED' (selected), 'Mark as NEW', 'Accept (change status to ASSIGNED)', 'Duplicate of', and 'Resolve as' (set to 'FIXED'). There is a 'Submit' button and an 'Attach Context' checkbox. The 'People' section shows 'Assignee: dana.singleterry@oracle.com', 'Reporter: Dana Singleterry <dana.singleterry@oracle.com>', and 'CC: dana.singleterry@oracle.com'. At the bottom, there are tabs for 'Context' and 'Task'.

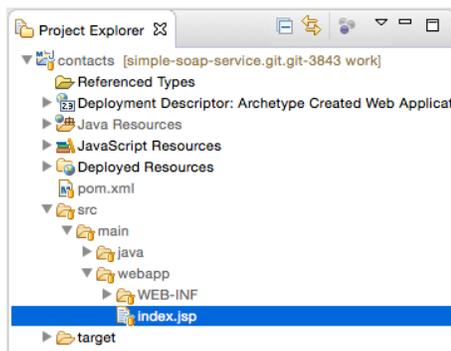
25. As before, go back to the ODevCS Web Dashboard browser and select the “Home” tab to see the activity and that the new issue has synchronized with ODevCS.



26. Activate the task in the IDE (OEPE) by Right clicking on the task in the “Task List” view and selecting “Activate”.



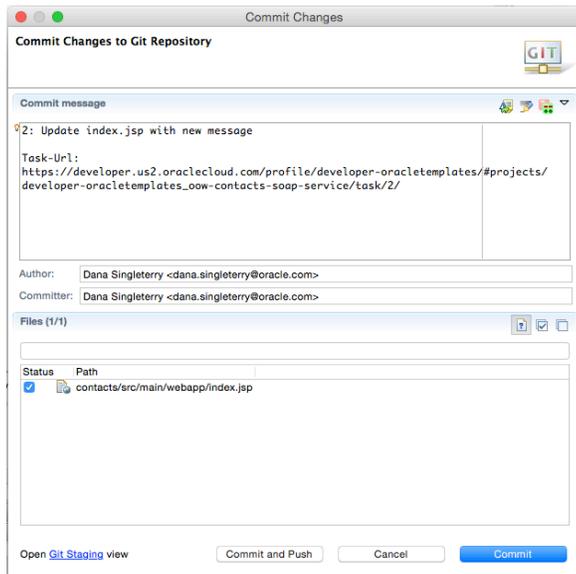
27. Now open index.jsp and add some updated message to the page. index.jsp can be found in the “Project Explorer” within the IDE (OEPE) in the following location “src | main | webapp”.



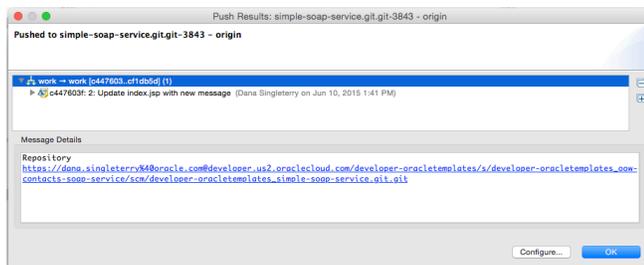
28. The index.jsp page should resemble the following:



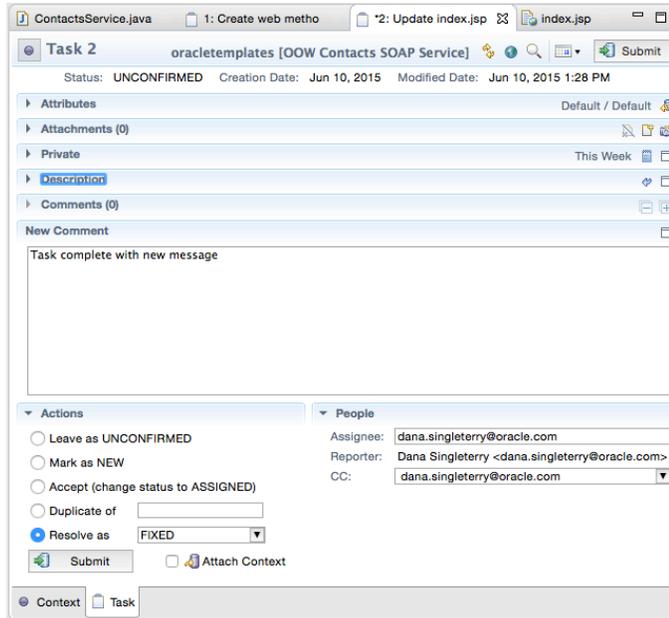
29. Be sure to save the changes and Right click on “index.jsp” in the IDE (OEPE) “Project Explorer” view window and select “Team | Commit”. Update the “Commit message” as desired or go with the default. Once ready, select the “Commit and Push” button.



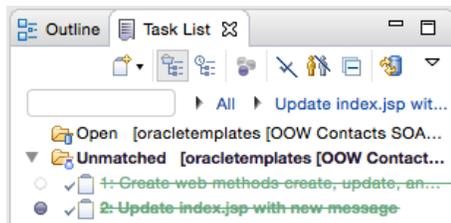
30. The results of the “Commit and Push” operation will be provided in a dialogue once complete. Select the “OK” button to exit.



31. The task should still be open so select the “Update index.jsp” tab in the IDE (OEPE). If it’s not open, right click on the task in “Task List” in the IDE (OEPE) and select open. Update the task with a “New Comment” and an action of “Resolve as” and select “Fixed” from the list-of-values. Select the “Submit” button to update the task.



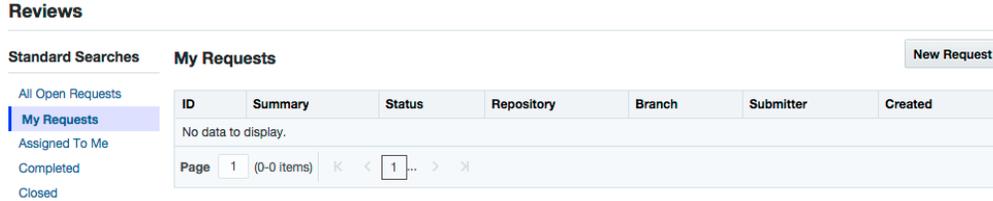
32. The issue is now flagged as complete.



33. Now go back to the ODevCS Web Dashboard browser and select the “Dashboard” tab to see the most recent activity. Follow the steps provided earlier in this lab to perform a diff on “index.jsp” to see the changes you’ve made as desired.

Step 4: Create a code review within the browser (ODevCS Web Dashboard).

1. Create a code review within ODevCS Web Dashboard browser. Select the “Merge Requests” tab. In the “Merge Requests” tab select the “New Request” button.



2. Enter the following details or similar in the Code Review form and select the “Create” button.

Submitter by default will be the creator of the code review

Repository: oow-contacts-soap-service.git

Review Branch: crudbranch

Target Branch: master

Summary: Code Review of new web methods and index.jsp

Reviewers: *Add yourself. **Note:** You would generally add other team members.*

Description: *Add some descriptive text*

New Request [X]

* Summary Code Review of new web methods and index

* Repository oow-contacts-soap-service-1.git

* Target Branch master

* Review Branch work

* Reviewers Dana Singleterry [X]

* Description Simple Code Review

Create Cancel

- Team members that have been added to this code review would now receive messaging (email) that they've been asked to collaborate on a code review in the project. They can Approve or Reject the code review and provide descriptive text to support their decision. Browse the code changes if desired by going to the objects modified. At this point, go ahead and "Approve" the code review by selecting the "Approve" button and provide an appropriate description of the approval. Select the "OK" button.



Approve

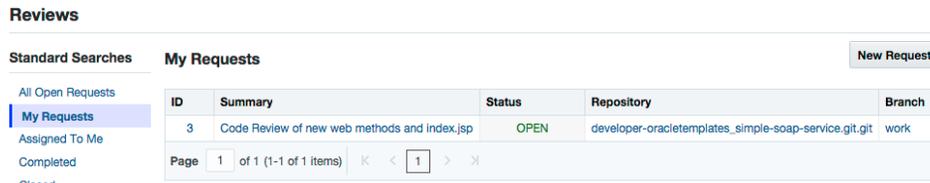
Provide approval comments for the developer.

Write Preview Textile Reference

Great Code!

OK Cancel

- Select the "Merge Requests" tab to review the status of the Code Review.



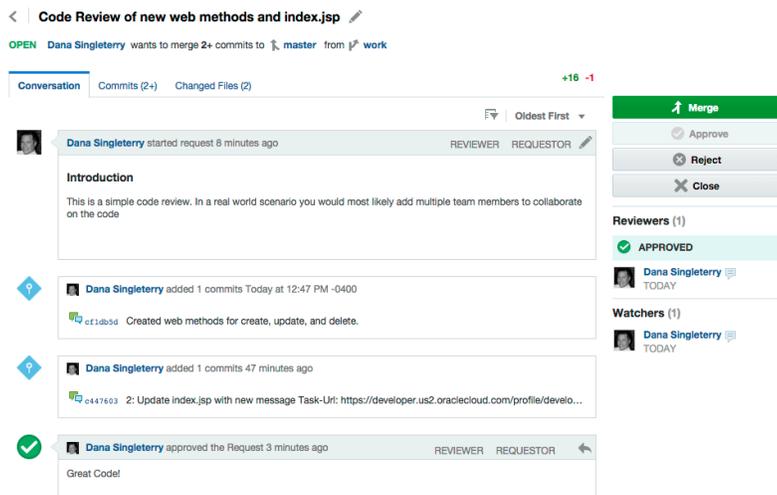
Reviews

Standard Searches My Requests New Request

ID	Summary	Status	Repository	Branch
3	Code Review of new web methods and index.jsp	OPEN	developer-oracletemplates_simple-soap-service.git	work

Page 1 of 1 (1-1 of 1 items) < >

- Select the Code Review to open it and Merge the code from the "work" branch into the "master".



Code Review of new web methods and index.jsp

OPEN Dana Singleterry wants to merge 2+ commits to master from work

Conversation Commits (2+) Changed Files (2) +16 -1

Merge

Approve

Reject

Close

Reviewers (1)

APPROVED

Dana Singleterry TODAY

Watchers (1)

Dana Singleterry TODAY

Dana Singleterry started request 8 minutes ago

REVIEWER REQUESTOR

Introduction

This is a simple code review. In a real world scenario you would most likely add multiple team members to collaborate on the code

Dana Singleterry added 1 commits Today at 12:47 PM -0400

cf1db5d Created web methods for create, update, and delete.

Dana Singleterry added 1 commits 47 minutes ago

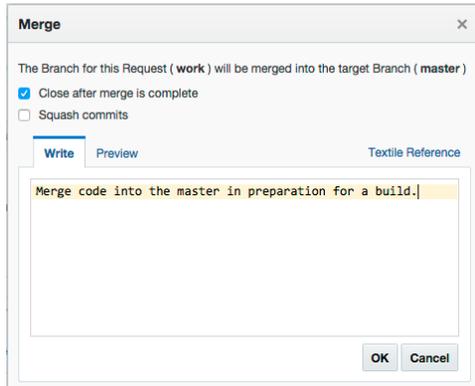
2447603 2: Update index.jsp with new message Task-Url: https://developer.us2.oraclecloud.com/profile/develop...

Dana Singleterry approved the Request 3 minutes ago

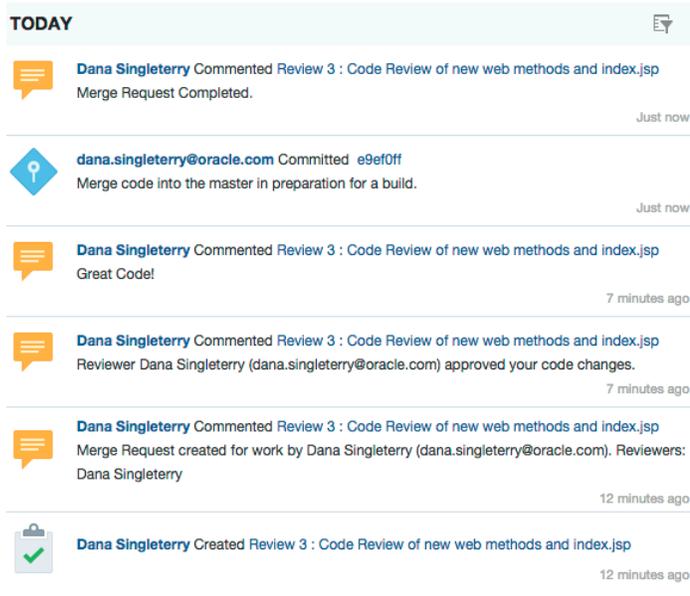
REVIEWER REQUESTOR

Great Code!

6. Provide a comment for the Merge as desired followed by selecting the “OK” button.



7. Navigate back to the “Home” tab within the ODevCS Web Dashboard browser and see the recent activity which includes the Code Review and Merge.



Step 5: Build the OOW Contacts SOAP Service project.

- To build the OOW Contacts SOAP Service project go to the “Build” tab on the ODevCS Web Dashboard browser. Notice that a build may have already started. This is due to the build job configuration whereby a build will occur every time code is merged into the “master” branch. A manual build may also be invoked by selecting the “Build Now” icon  as indicated in the image below.

Jobs Overview

Build Queue
contacts-build

30%

[View Build History](#)

Job Statistics



50.00% In progress
50.00% Pending

New Job		All Jobs	All Successful Jobs	All Failed Jobs	All Unstable Jobs	
Status	Weather	Job	Last Success	Last Failure	Duration	Actions
		contacts-build	Yesterday at 1:46 PM -0400	N/A	59 s 274 ms	  
		Sample_Maven_Build	N/A	N/A	N/A	  

- Hudson build job was pre-configured in the application pom.xml. The OOW Contacts SOAP Service project was successfully built as indicated by the green icon in the first row of the table. This build was invoked automatically shortly after pushing the contacts application to the ODevCS Git repository.

Status	Weather	Job	Last Success	Last Failure	Duration	Actions
		contacts-build	6 minutes ago	Last Success	59 s 979 ms	  
		Sample_Maven_Build	N/A	N/A	N/A	  

- Select the “contacts-build” job in the table from the “Build” tab to view the history of the builds for the project and to see the results of the most recent build.

[Jobs Overview](#) | contacts-build
Build Now | Configure | Disable | Delete

Description
Maven POM build file generated by Oracle Enterprise Pack for Eclipse

 Latest Console

 Changes

 Git Logs

Permalinks
Last | Successful | Completed | Stable

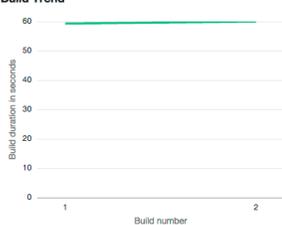
Notifications On Off

Build History

Status	Build	Time	Duration	Console
	#2	14 minutes ago	59 s 979 ms	
	#1	Yesterday at 1:46 PM -0400	59 s 274 ms	

Artifacts of Last Successful Build
contacts.war
 (all files in zip)

Build Trend



Build duration in seconds

Build number

4. Select the “Console” icon in  the “Build History” table to view the console log of the build process. Further configuration of the build process is available as well as invocation of another build as desired.

```
[INFO] -----  
[INFO] BUILD SUCCESS  
[INFO] -----  
[INFO] Total time: 38.297s  
[INFO] Finished at: Wed Jun 10 18:37:38 UTC 2015  
[INFO] Final Memory: 14M/115M  
[INFO] -----  
[DEBUG] Closing connection to remote  
[DEBUG] Waiting for process to finish  
[DEBUG] Result: 0  
Archiving artifacts  
Finished: SUCCESS
```

Step 6: Deploy the OOW Contacts SOAP Service project to the Oracle Java Cloud Service (OJCS - SX) SaaS extension.

1. In order to deploy the OOW Contacts SOAP Service project that was just built, select the “Deploy” tab in the ODevCS Web Dashboard browser.



You currently have no deployment configurations.

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



2. Select the “New Configuration” button to create a new deployment configuration and provide the following configuration details.

Configuration Name: contacts

Application Name: contacts

Java Service: jcs1

Type: On Demand

Job: contacts-build

Build: *Select the most recent successful build.*

Artifact: contacts/target/contacts.war

Once the “New Deployment Configuration” is completed, select the “Save and Deploy” button.

New Deployment Configuration Save and Deploy Cancel

* Configuration Name

* Application Name

* Java Service

Type On Demand
 Automatic

* Job

* Build

* Artifact

3. After selecting the “Save and Deploy” button, the project will be saved and deployed to OJCS-SX and viewing of the status of the configuration creation and deployment is available.

The screenshot shows the Oracle Cloud Deployments interface. At the top right is a "New Configuration" button. The main section is titled "Deployments" and contains a card for the "contacts" project. The card displays the following information: "Java Service oracletemplates / jcs1", "Configuration contacts", "Job / Build contacts-build / On Demand", and "Artifact contacts/target/contacts.war". A green checkmark indicates that the "Last deployment succeeded -- Just now." To the right of the card is a "contacts: History" section with two entries: "Deployment Succeeded" (contacts-build / 2 / contacts/target/contacts.war) and "Create Succeeded" (contacts-build / 2 / contacts/target/contacts.war), both performed by Dana Singleterry.

4. Select the “Java Service” link “oracletemplates/jcs1”.

This screenshot is similar to the previous one but shows the "contacts" project card with the "Java Service" link "oracletemplates / jcs1" highlighted in blue, indicating it has been selected.

5. Sign in to OJCS-SX using the credentials provided by the lab instructor if prompted to log in.

The screenshot shows the "Sign In to Oracle Cloud" page. It features three input fields: "User Name", "Password", and "Identity Domain". The "Identity Domain" field contains the text "oracletemplates". Below the fields are links for "Forgot Password" and "Learn More". A blue "Sign In" button is positioned at the bottom center of the form.

- Once authenticated, the OJCS-SX Control is launched in the browser. Explore the various panel boxes within the OJCS-SX Control dashboard.

Java Cloud Service - SaaS Extension Control

Service Instances > Service Instances: jcs1

Service Instance: jcs1

Performance Summary

General

Service Version: 15.2
Customer Disk Usage (MB): 38.75

JDBC Usage

Open JDBC Connections: Unavailable
JDBC Connection Creates (per minute): Unavailable

Servlets and JSPs

Active Sessions: Unavailable
Request Processing Time (ms): Unavailable
Requests (per minute): Unavailable

Applications

Name	Status	Test Application	State	Active Sessions	Request Processing Time (ms)
ADFApp001	↑	📄	Active	Unavailable	Unavailable
c9WebProj1	↑	📄	Active	Unavailable	Unavailable
CMCApp	↑	📄	Active	Unavailable	Unavailable
Contact	↑	📄	Active	Unavailable	Unavailable
ContactBuild	↑	📄	Active	Unavailable	Unavailable
contacts	↑	📄	Active	Unavailable	Unavailable
Contacts	↑	📄	Active	Unavailable	Unavailable
ContactsAoo	↑	📄	Active	Unavailable	Unavailable

Libraries

Library Name	Specification Version	Implementation Version	Type	State	Deployment Type	Ref App
adf.oracle.domain	1.0	11.1.1.2.0	EAR	Active	Read Only	
adf.oracle.domain...	1.0	11.1.1.2.0	WAR	Active	Read Only	
jax-rs	1.1	1.9	WAR	Active	Read Only	
jsf	1.2	1.2.9.0	WAR	Active	Read Only	
jsf	2.0	1.0.0.0_2-0-2	WAR	Active	Read Only	
jstl	1.2	1.2.0.1	WAR	Active	Read Only	

Resource Usage

CPU Usage (%)

m0
m1

- Select the contacts application in the “Applications” panel box on the top right of the OJCS-SX Control Dashboard.

Applications

View + Deploy New X Delete Application 📄 Redeploy ▶ Start >>

Name	Status	Test Application	State	Active Sessions	Request Processing Time (ms)
ADFApp001	↑	📄	Active	Unavailable	Unavailable
c9WebProj1	↑	📄	Active	Unavailable	Unavailable
CMCApp	↑	📄	Active	Unavailable	Unavailable
contacts	↑	📄	Active	Unavailable	Unavailable
dp_builder_14299...	↑	📄	Active	Unavailable	Unavailable
dp_builder_14316...	↑	📄	Active	Unavailable	Unavailable
dp_builder_14319...	↑	📄	Active	Unavailable	Unavailable
do builder 14321...	↑	📄	Active	Unavailable	Unavailable

8. Select the "Application URL" link to launch and test the jsp page that is part of the OOW Contacts SOAP Service project.

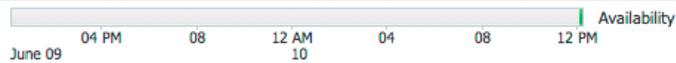
Java Cloud Service - SaaS Extension Control

Service Instances > Service Instance: jcs1 > Application: contacts

Application: contacts

Application ▾

Performance Summary



Up Since Jun 10, 2015 12:02:11 PM

State Active

Service Instance jcs1

Application URLs

URL

<https://jcs1-oracletemplates.java.us2.oraclecloudapps.com/contacts>

Servlets and JSPs

Active Sessions	Unavailable
Request Processing Time (ms)	Unavailable
Requests (per minute)	Unavailable

Work Manager

Requests (per minute)	Unavailable
Pending Requests	Unavailable

9. The test jsp page is now visible for the project that has been successfully built and deployed from ODevCS to OJCS-SX.



Hello Cloud World! Oracle Developer Cloud Service ROCKS!

Summary

In this tutorial you created an ODevCS project from template. You learned how to:

- Work with ODevCS and the various features provided within the dashboard
- Connect to your ODevCS instance from within your IDE (OEPE)
- Clone a project from ODevCS and import it into your IDE (OEPE)
- Created tasks within ODevCS and resolve those tasks within your IDE (OEPE) by creating a branch and working within that branch
- Commit / push your contacts project code updates to the Git repository within ODevCS
- Create a Code Review and Merge your working branch into the master branch
- Build your project with Hudson Continuous Integration in ODevCS
- Deploy your contacts application to OJCS-SX

To learn more about using ODevCS, refer to the product page:

- https://cloud.oracle.com/developer_service