

IBM Bluemix Lab

- Java Cache Web Application

Tony Yang



IBM Bluemix

Today's Lab includes...

- Part 1: Setup accounts and prerequisites
- Part 2: Start your first APP on Bluemix
- Part 3: Cloud Foundry CLI
- Part 4: Modify APP using DevOps



Lab #0: Pre-requisites

1. Create Bluemix account (IBM ID)
2. Register IBM DevOps Services and link to Jazz ID
3. Install the cf command line interface



Login IBM Bluemix:

<http://www.bluemix.net>



IBM Bluemix



IBM Bluemix

SOLUTIONS

CATALOG

PRICING

DOCS

COMMUNITY

SIGN UP

LOG IN

IBM[®] Watson[™] Services for Bluemix[™]

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Develop your apps: from concept to live in minutes.
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Not Ready Yet?

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Register for your free service

Create an  IBM id to get started.

[Already have an IBM id?](#)

Asterisk () denotes required field.*

<input type="text" value="bm_nccu03@yahoo.com.tw"/>	<input type="text" value="bm_nccu03@yahoo.com.tw"/>
<input type="text" value="NCCU03"/>	<input type="text" value="Yang"/>
<input type="password" value="*****"/>	<input type="password" value="*****"/>
<input type="text" value="0968487856"/>	
<input type="text" value="TAIWAN"/>	
<p>Please enter a security question that only you can answer. Then, enter the answer to the question. Occasionally, you may be asked to answer this question to confirm your identity.</p>	
<input type="text" value="bluemix"/>	<input type="text" value="bluemix"/>

Please keep me informed of products, services and offerings from IBM companies worldwide.

- by email
- by telephone or postal mail

I accept IBM's [Privacy Statement](#) and [Terms and Conditions](#).



Registration has been completed



IBM **Bluemix**[™]

Develop your apps: from concept to live in minutes.
Scale your app: for your tenth or millionth user.
Leverage cloud services: for your next big idea.

Registration Complete

[Check your email to activate your account.](#)

You should receive your confirmation email in a few minutes. If you have any issues, click the following link to get help: <https://developer.ibm.com/bluemix/support/>

Not Ready Yet?

Learn More...

Check the e-mail notification from IBM Bluemix



Validate your account

• **IBM Bluemix**

收件者 NCCU03 Yang

此信包含被封鎖的圖片。 [顯示相片](#)

Hi NCCU03,

Thank you for signing up for a subscription to **IBM Bluemix Trial** using the following organization account: NCCU03 Yang's Company. This n with the opportunity to try the full services, as a proof of concept before your purchase.

Please validate this email address in the next 28 days (by Jun 8, 2015) to use the service. You only need to do this once and it's just for you.

[Validate Email Address](#)

Once your email address is validated:

Trial Subscription Duration (30 days)

Activated: May 11, 2015 | Expires: Jun 10, 2015

This service is governed by the following [Terms and Conditions](#).

For future reference, use these links:

[Launch Service](#) | [Get Support](#) | [Learn About](#)

Regards,

IBM Bluemix Team

Tip: If the above "Validate Email Address" button does not work in your email client, copy this URL into your browser:

https://apps.admin.ibmcloud.com/manage/scxaccount/public/registration/input?token=3jrGds9PgKNcfBvArZEO88YWy4w%40&subscriberId=500786881&offeringId=500000042&locale=en_US

[回覆](#)、[全部回覆](#)或[轉寄](#) | [了解更多](#)



IBM Bluemix

Use your IBM ID to sign-in



One key, many possibilities.

Your IBM id provides access to services, communities, support, online purchasing, and much more.

Create IBM id

Sign in

[Forgot password?](#)

Sign in

[Help and FAQ](#)

IBM Employees:

[Sign in with your intranet ID.](#)

[Link your Intranet ID and IBM id](#)



IBM Bluemix

Congratulations!

The screenshot displays the IBM Bluemix dashboard interface. At the top, the navigation bar includes the IBM Bluemix logo, the text "IBM Bluemix", and menu items for "DASHBOARD", "CATALOG", "PRICING", "DOCS", and "COMMUNITY". A date indicator shows "29" days remaining in the trial. Below the navigation bar, the user's organization is identified as "ORG: garylinibm@g...". The main dashboard area features three circular gauges: "0B out of 2GB of Memory", "APP HEALTH" with a "0" in the center, and "0/10 SERVICES". A prominent notification box in the upper right corner states "FREE TRIAL" and "You have 29 days left in your free trial.", with links for "Create a Pay Account" and "Invite Users". On the left side, a sidebar lists "dev" space with "APPS (0)", "SERVICES (0)", and "ADD-ONS (0)", along with an "Add a Space" option. At the bottom center, a large button with a plus sign and the text "CREATE AN APP" is visible.

Register IBM DevOps Services and link to Jazz ID



Login IBM DevOps Services:

<https://hub.jazz.net/>



IBM Bluemix



DevOps Made Easy

Integrated Agile Planning, Coding, Building, Deploying

[Sign up for free](#)

Connect with Bluemix DevOps Services:



Use your IBM ID to log in to DevOps Services

IBM



IBM Bluemix™ DevOps Services

Why register?

- Enhance your Bluemix experience.
- Develop and deploy software in the cloud.
- Code with the Web IDE in your browser.
- Push your applications to [Bluemix](#), IBM's cloud platform.
- Ask questions and get answers in our forum.
- Get started by forking projects or following a tutorial.

[Learn more](#)

Sign Up

- 1 Create an IBM id
- 2 Log in
- 3 Pick an alias

Already have an IBM id? [Log in to start using DevOps Services.](#)

<input type="text" value="Email address (IBM id)"/>	
<input type="text" value="First name"/>	<input type="text" value="Last name"/>
<input type="text" value="Create password"/>	<input type="text" value="Re-enter password"/>
<input type="text" value="Country of Residence"/>	<input type="text" value="Affiliation"/>

Please enter a security question that only you can answer. Then, enter the answer to the question. Occasionally, you may be asked to answer this question to confirm your identity.

<input type="text" value="Security question"/>	<input type="text" value="Security question answer"/>
--	---

Please keep me informed of products, services, and offerings from IBM companies worldwide.

I accept the DevOps Services [Terms of Use](#).

<input type="button" value="Next"/>	<input type="button" value="Cancel"/>
-------------------------------------	---------------------------------------



One key, many possibilities.

Your IBM id provides access to services, communities, support, online purchasing, and much more.

[Create IBM id](#)

Sign in

[Forgot password?](#)

[Sign in](#)

[Help and FAQ](#)

IBM Employees:
[Sign in with your intranet ID.](#)

[Link your Intranet ID and IBM id](#)



IBM Bluemix™ DevOps Services

Enhance your Bluemix experience.
Develop and deploy software in the cloud.
Code with the Web IDE in your browser.
Push your applications to [Bluemix](#), IBM's cloud platform.
Ask questions and get answers in our forum.
Get started by forking projects or following a tutorial.

[Learn more](#)

Welcome to Bluemix DevOps Services

Before you get started, we need to associate your IBM id with an alias. An alias is a unique, publicly visible short name used in Git repository paths, Track & Plan, and desktop and command line clients.



Finish

Cancel



IBM Bluemix

Success!

✓ You are now ready to start using **Bluemix™** DevOps Services

 IBM id: **bm_nccu01@yahoo.com.tw**

 Alias: **nccu01**

Important: When signing in from desktop and command line clients such as Git and Team Concert, use your alias with your IBM password. [Why?](#)

Continue

Install CloudFoundry (cf) Command Line Interface



Download cf Command Line Interface

<https://github.com/cloudfoundry/cli/releases>

(請下載適合您作業系統的Installer)



IBM Bluemix

Latest release

v6.11.2

2a26d55

CF version v6.11.2

 **simonleung8** released this 14 days ago · **19 commits** to master since this release

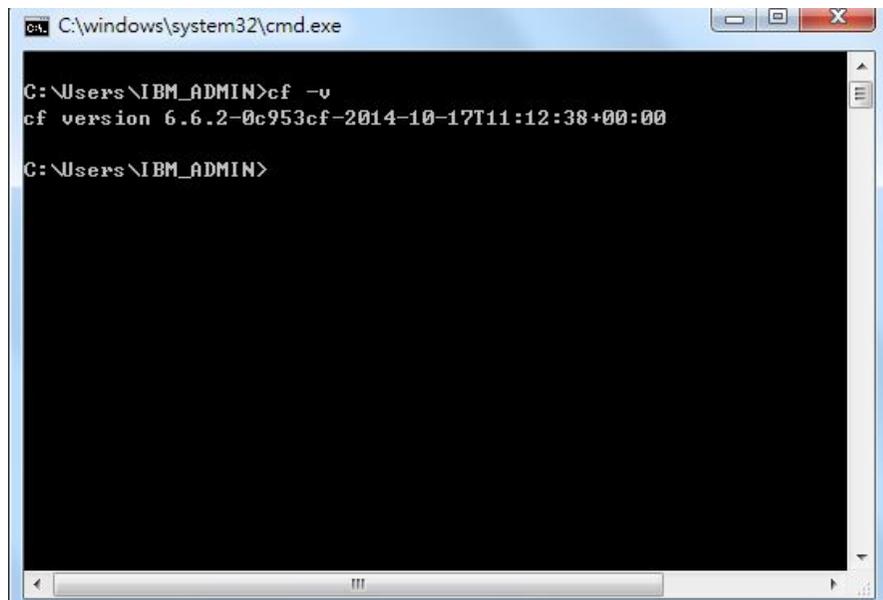
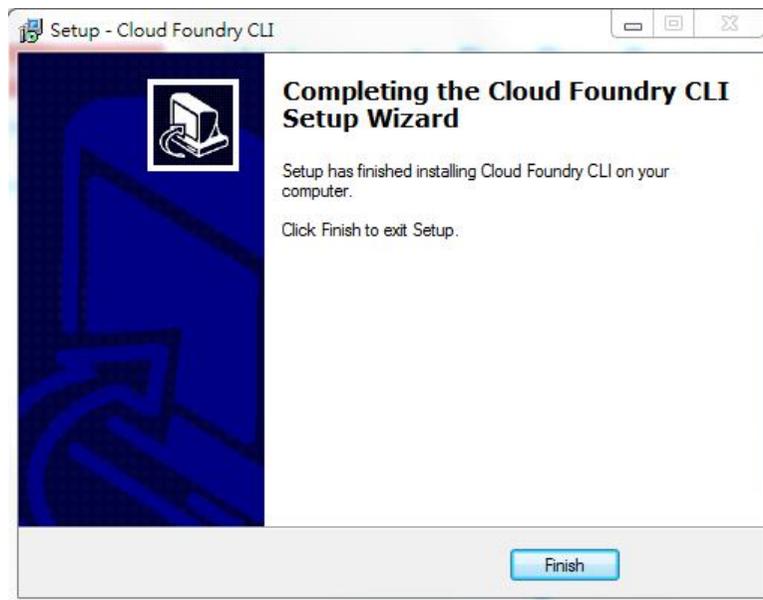
CF version v6.11.2

Installers

- [Debian 32 bit](#)
- [Debian 64 bit](#)
- [Redhat 32 bit](#)
- [Redhat 64 bit](#)
- [Mac OS X 64 bit](#)
- [Windows 32 bit](#)
- [Windows 64 bit](#)



IBM Bluemix



We are ready!

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Lab #1:

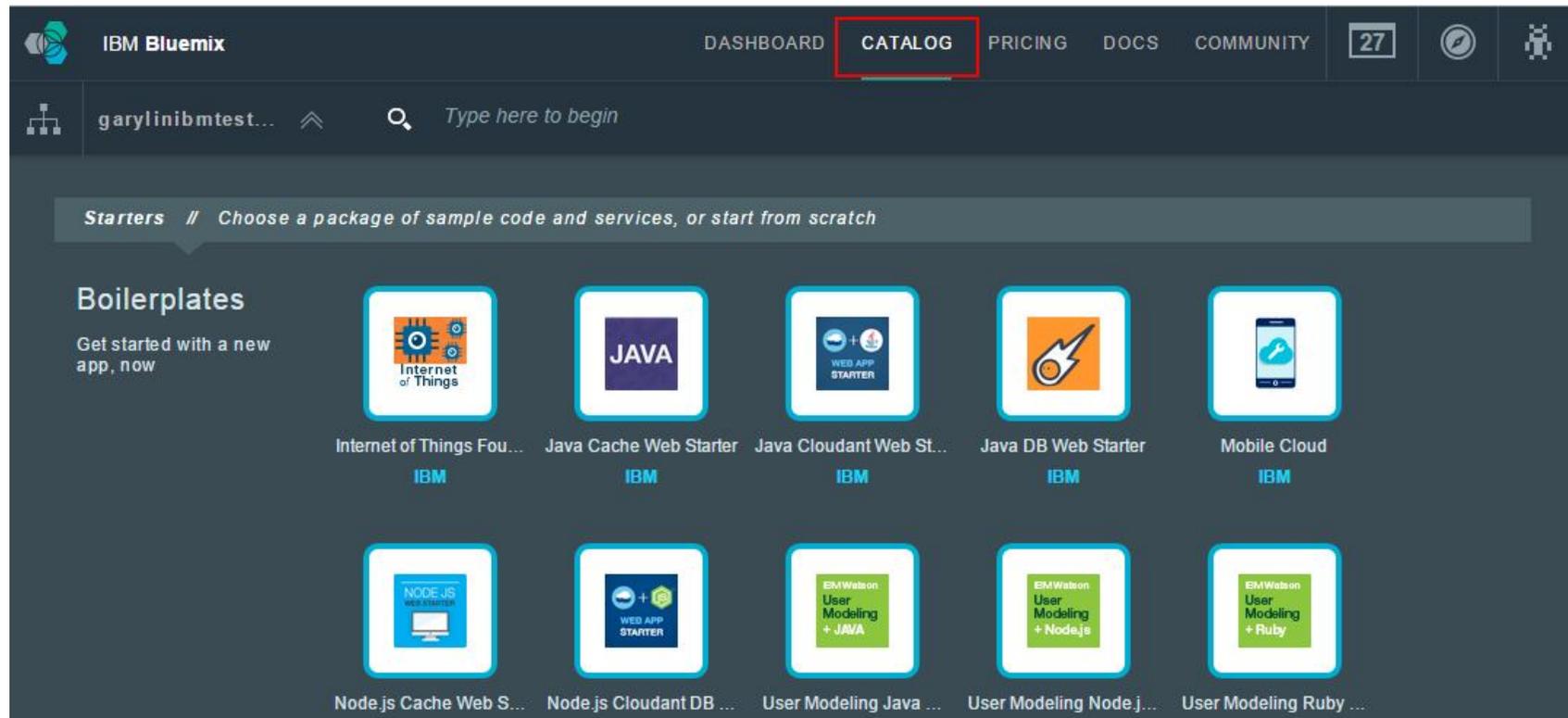
Create a Java Cache Web Application on Bluemix



Step 1: Login Bluemix

The screenshot displays the IBM Bluemix dashboard interface. At the top, the navigation bar includes 'IBM Bluemix', 'DASHBOARD', 'CATALOG', 'PRICING', 'DOCS', 'COMMUNITY', a calendar icon showing '27', and a search icon. The left sidebar shows the organization 'ORG: garylinibmtest...' and a 'dev' space with 'APPS (0)' and 'SERVICES (0)'. The main dashboard area features three circular gauges: '0B out of 2GB of Memory', '0 APP HEALTH', and '0/10 SERVICES'. A 'FREE TRIAL' notification box is overlaid on the right, stating 'You have 27 days left in your free trial.' and providing links for 'Confirm Your Free Account' and 'Invite Users'. Below the gauges, the 'Applications' section contains a large '+ CREATE AN APP' button.

Step 2: select “CATALOG” tab



The screenshot shows the IBM Bluemix user interface. At the top, the navigation bar includes 'DASHBOARD', 'CATALOG' (highlighted with a red box), 'PRICING', 'DOCS', and 'COMMUNITY'. Below the navigation bar is a search bar with the text 'Type here to begin'. The main content area is titled 'Starters // Choose a package of sample code and services, or start from scratch'. Underneath, there is a section for 'Boilerplates' with the text 'Get started with a new app, now'. The boilerplates are displayed in a grid of 10 items, each with an icon and a title:

- Internet of Things Fou... (IBM)
- Java Cache Web Starter (IBM)
- Java Cloudant Web St... (IBM)
- Java DB Web Starter (IBM)
- Mobile Cloud (IBM)
- Node.js Cache Web S... (IBM)
- Node.js Cloudant DB ... (IBM)
- User Modeling Java ... (IBM)
- User Modeling Node.j... (IBM)
- User Modeling Ruby ... (IBM)

Step 3: Select “Java Cache Web Starter” in Boilerplates



Step 4: Name your application and click “CREATE”

The screenshot displays the IBM Bluemix console interface for creating a new application. On the left, the 'Java Cache Web Starter' is highlighted, showing its version (0.0) and type (Boilerplate). The main area features three service icons: Liberty for Java™, Data Cache, and Monitoring and Analytics. Below these, a 'Pick a plan' section shows a table with one plan selected: 'Default' for Liberty for Java™, 'Free' for Data Cache, and 'Free' for Monitoring and Analytics. The price is listed as US\$0.0735 USD/GB-Hour. On the right, the 'Create an app' form is visible, with the 'Name' field containing 'javaCache-garylin' and the 'Host' field containing 'javaCache-gary.mybluemix.net'. A red box highlights these two fields. At the bottom right, a green 'CREATE' button is also highlighted with a red box.

Java Cache Web Starter
IBM

This sample application demonstrates how to use the IBM DataCache Service Java Native API with the Java Web runtime on IBM Cloud.

VERSION
0.0

TYPE
Boilerplate

[VIEW DOCS](#)

Liberty for Java™
Data Cache
Monitoring and...

Quickly get started with Java and the IBM Data Cache service. Powered by Liberty for Java™

[VIEW DOCS](#)

Pick a plan Monthly prices shown are for country or region: [Taiwan](#)

Plan	Features	Price
✓ Default	Run one or more apps free for 30 days (375 GB-hours free).	US\$0.0735 USD/GB-Hour

Create an app:

Name:

Host:

Selected Plans:

Liberty for Java™
Default

Data Cache
Free

Monitoring and Analytics
Free

[CREATE](#)

Step 5: Check your application status

The screenshot shows the IBM Bluemix application management console for an application named "javaCache-garylin". The interface includes a top navigation bar with a gear icon, a "VIEW QUICK START" button, a "ROUTES:" section with a red box around the URL "javaCache-garylin.mybluemix.net", and an "ADD GIT" button. A notification box states: "Check out the Liberty for Java™ quick start to get started with your new app." The main content area displays "LIBERTY FOR JAVA™" and "INSTANCES:" with a dropdown menu set to "1". Below this, the "MEMORY QUOTA:" is set to "512" (MB per Instance) and "AVAILABLE MEMORY:" is "1.500GB". There are "RESET" and "SAVE" buttons for the memory settings. On the right side, the "APP HEALTH" section shows a green checkmark and the text "Your app is running.", with a red box around this status. There are "RESTART" and "STOP" buttons. Below the health section is the "ACTIVITY LOG" showing a log entry: "14-11-2 下午4:02 garylinibmtest@gmail.... started javaCache-garylin app". At the bottom, there is an "ADD A SERVICE" button and a link to "Estimate the cost of this app" with a right-pointing arrow.

Step 6: Play with your new application on Bluemix

Welcome to Java Web Starter on Bluemix!

This sample demonstrates how to use the Java Native API to access the [Data Cache](#) service.

Grid Operations:

Key:

Value:

Put successfull.

Grid Entries:

Key	Value
name	Gary

Welcome to Java Web Starter on Bluemix!

This sample demonstrates how to use the Java Native API to access the [Data Cache](#) service.

Grid Operations:

Key:

Value:

Get Corresponding entry value successfully.

Grid Entries:

Key	Value
name	Gary



Lab #1 completed!

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Lab #2:

Use cf Command Line Interface



Step 1: Click on the Java Web Application you just created

The screenshot displays the IBM Bluemix dashboard interface. At the top, the navigation bar includes 'DASHBOARD', 'CATALOG', 'PRICING', 'DOCS', and 'COMMUNITY'. The left sidebar shows the organization 'ORG: garylinibmtest...' and a 'dev' environment with 'APPS (1)' and 'SERVICES (1)'. The main dashboard area features three circular gauges: '512MB out of 2GB of Memory', 'APP HEALTH' (indicated by a green checkmark), and '2/10 SERVICES'. Below these, the 'Applications' section is visible, containing a 'CREATE AN APP' button and a list of applications. The application 'javaCache-garylin' is highlighted with a red border, showing its status as 'Running' and a 'Java' logo.

Step 2: Click “View Quick Start”

The screenshot shows the IBM Bluemix console interface for an application named "javaCache-garylin". The application is running on the Liberty for Java platform. The interface includes a navigation bar with a "VIEW QUICK START" button highlighted in red, a "ROUTES" section showing the URL "javaCache-garylin.mybluemix.net", and an "ADD GIT" button. The main content area is divided into several sections: a "LIBERTY FOR JAVA" section with a ".java Liberty" logo, an "INSTANCES" section with a dropdown menu set to "1", a "MEMORY QUOTA" section with a dropdown menu set to "512" (MB per Instance), and an "AVAILABLE MEMORY" section showing "1.500GB" with "RESET" and "SAVE" buttons. On the right side, there is an "APP HEALTH" section with a green checkmark indicating "Your app is running.", "RESTART" and "STOP" buttons, and an "ACTIVITY LOG" section showing "No activity available". At the bottom, there is an "ADD A SERVICE" button and a link to "Estimate the cost of this app" with a right-pointing arrow.

Step 3: Download the Java Web Application package

VIEW QUICK START

ROUTES: [javaCache-garylin.mybluemix.com](#)

`.java`
Liberty

LIBERTY FOR JAVA™

INSTANCES: 1

MEMORY QUOTA: 512 (MB per Instance)

AVAILABLE MEMORY: 1.500GB

RESET SAVE

ADD A SERVICE

QUICK START AND NOTIFICATION

Get started with `javaCache-garylin`

Welcome to your new Java Web Starter!

Get started with this Java Web Starter application that uses IBM DataCache Java native APIs, powered by WebSphere eXtreme Scale technology.

- [Install the cf command-line tool.](#)
- **Download the starter application package.**
- Extract the package and

```
cd
```

to it.

- Connect to Bluemix:

```
cf api https://api.ng.bluemix.com/api/v2
```

- Log into Bluemix:



Step 4: Please follow the steps listed in Quick Start

QUICK START AND NOTIFICATION

Get started with javaCache-garylin

Welcome to your new Java Web Starter!

Get started with this Java Web Starter application that uses IBM DataCache Java native APIs, powered by WebSphere eXtreme Scale technology.

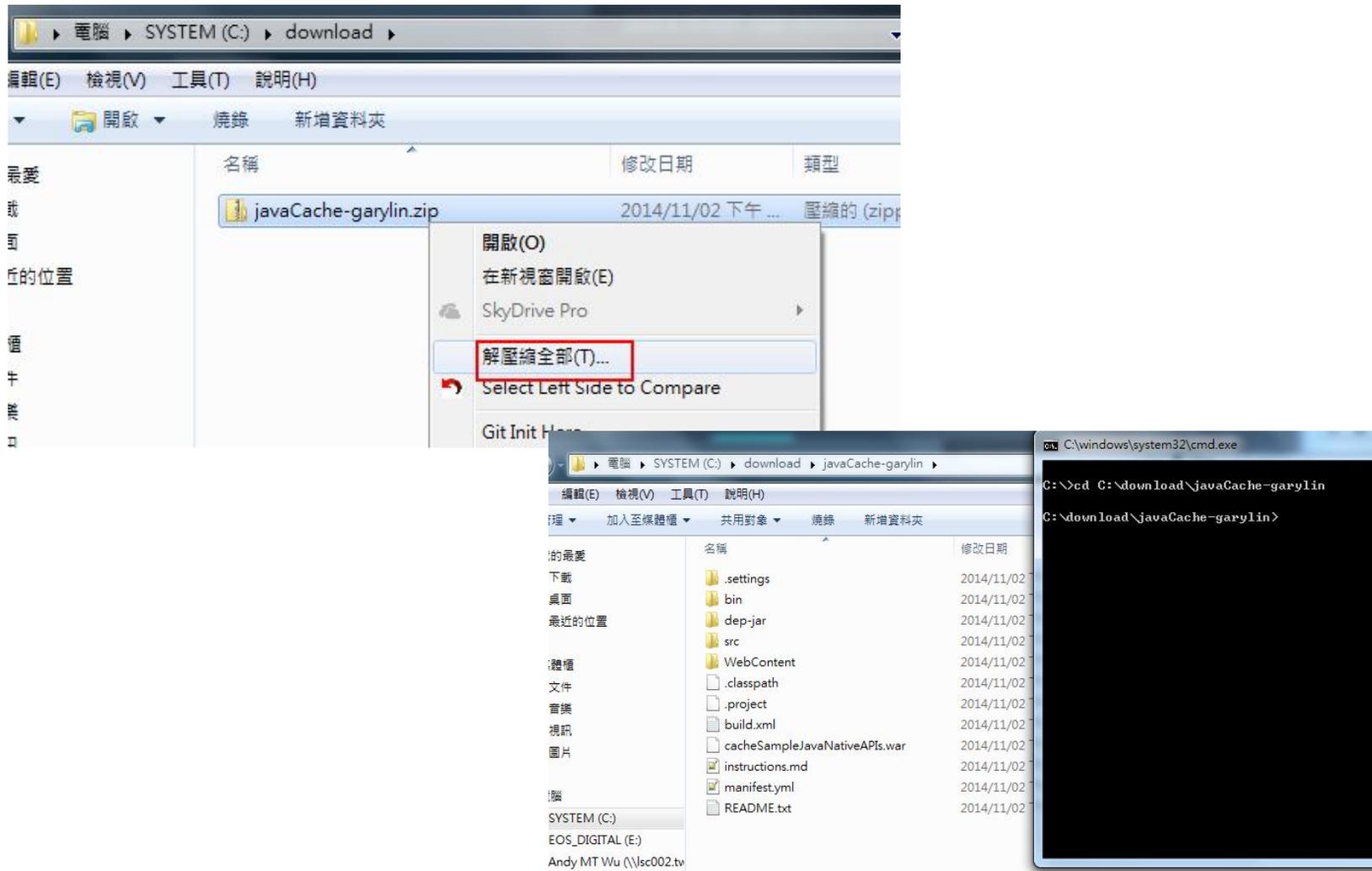
- 1 • [Install the cf command-line tool.](#)
- 2 • [Download the starter application package.](#)
- 3 • Extract the package and

```
cd
```

to it.
- 4 • Connect to Bluemix:

```
i https://api.ng.bluemix.net
```

Extract the package and cd to the directory



The image shows a sequence of steps to extract a package and navigate to its directory. The top screenshot shows a Windows File Explorer window with the address bar set to 'SYSTEM (C:) > download'. A file named 'javaCache-garylin.zip' is selected, and a context menu is open with '解壓縮全部(T)...' (Extract All) highlighted. The bottom screenshot shows the same File Explorer window after extraction, with the address bar set to 'SYSTEM (C:) > download > javaCache-garylin'. The file list shows various files and folders including '.settings', 'bin', 'dep-jar', 'src', 'WebContent', '.classpath', '.project', 'build.xml', 'cacheSampleJavaNativeAPIs.war', 'instructions.md', 'manifest.yml', and 'README.txt'. To the right, a terminal window titled 'C:\windows\system32\cmd.exe' shows the following commands and output:

```
C:\>cd C:\download\javaCache-garylin
C:\download\javaCache-garylin>
```

Summary of cf commands used

- Connect to Bluemix API end point
cf api
- Log into Bluemix
cf login
- Setup organization and space target (optional)
cf target
- Deploy your application
cf push



Demo (if time permits)

- Use Eclipse to update and re-build the code, and use cf command to push it to Bluemix.



Lab #2 completed!

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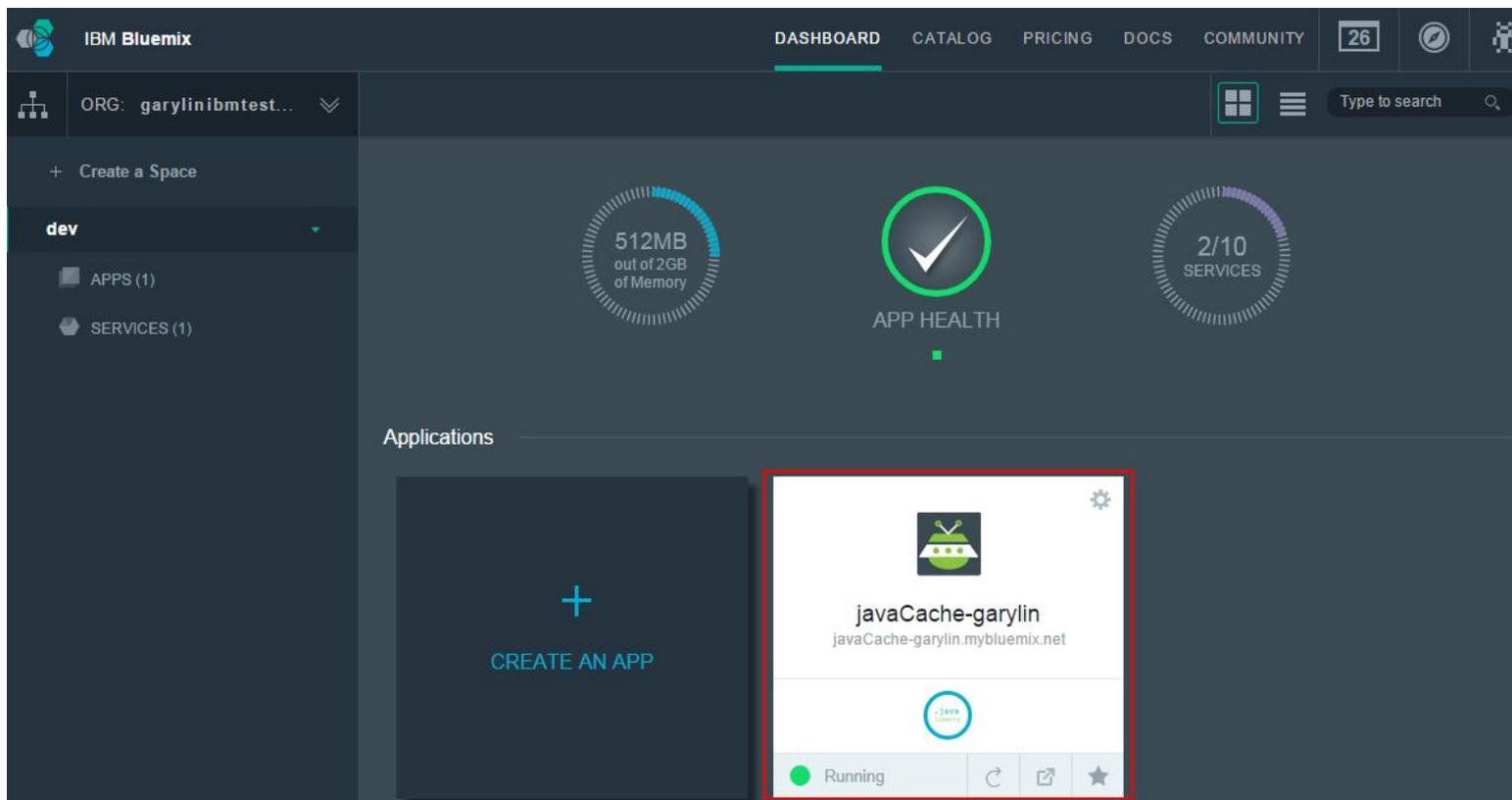
IBM Bluemix

Lab #3:

Modify and Deploy Application using IBM DevOps Services



Step 1:
Click on the sample application on
the DASHBOARD tab



Step 2: Click “ADD GIT”

The screenshot displays the IBM Bluemix console for the application 'javaCache-garylin'. At the top, there is a navigation bar with a gear icon on the right and the application name. Below this, a secondary bar contains 'VIEW QUICK START', 'ROUTES: javaCache-garylin.mybluemix.net', and a red-bordered 'ADD GIT' button. The main content area is divided into several sections: a 'LIBERTY FOR JAVA™' logo, a configuration panel with 'INSTANCES: 1', 'MEMORY QUOTA: 512 (MB per Instance)', and 'AVAILABLE MEMORY: 1.500GB' (with 'RESET' and 'SAVE' buttons), an 'APP HEALTH' section showing 'Your app is running' with 'RESTART' and 'STOP' buttons, an 'ACTIVITY LOG' section with 'No activity available', and a 'Data Cache' service card for 'javaCache-garylin-D...' with a 'Show Credentials' button and a 'free' label. On the left side, there are buttons for 'ADD A SERVICE' and 'BIND A SERVICE'. At the bottom right, there is a button to 'Estimate the cost of this app' with a right-pointing arrow.

Step 3: Input IBM ID information

Create Git Repository



Please confirm your identity to continue.

 IBM id: garylinibmtest@gmail.com

Sign In

Powered by JazzHub | [Terms of Use](#)

Step 4: Continue to create git repository

Create Git Repository x



Press **Continue** to create a Git repository associated with the **javaCache-garylin** application. Pushing changes to this repository will trigger automatic deployment to the application.

Populate the repository with the starter application package and enable build and deploy.

CONTINUE



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Step 5: Confirm success.

Create Git Repository ✕



Success! The Git repository for your application has been created. The application starter code is now being added to the repository. The application will then be deployed and restarted.

CLOSE



IBM Bluemix

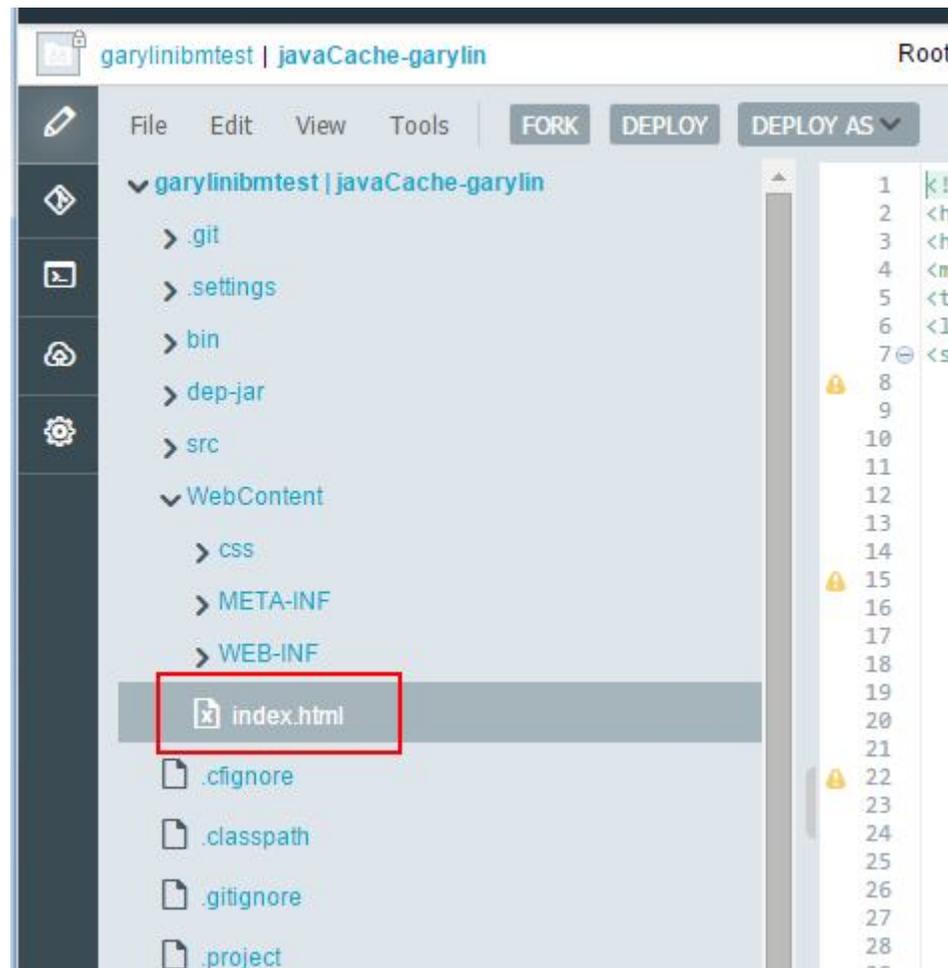
Step 6: Click “EDIT CODE” to connect to the JazzHub

The screenshot shows the IBM Bluemix console for the application 'javaCache-garylin'. At the top, there is a header with the application name and a gear icon. Below the header, there are navigation options: 'VIEW QUICK START', 'ROUTES: javaCache-garylin.mybluemix.net', and 'GIT URL: https://hub.jazz.net/git/garylinibmtest/javaCache-garylin'. A red box highlights the 'EDIT CODE' button next to the GIT URL.

The main content area is divided into several sections:

- LIBERTY FOR JAVA™**: A section with a Java logo and the text 'LIBERTY FOR JAVA™'.
- INSTANCES:** A dropdown menu showing '1'.
- MEMORY QUOTA:** A dropdown menu showing '512' (MB per Instance).
- AVAILABLE MEMORY:** A dropdown menu showing '1.500GB' with a 'RESTART' button and 'RESET' and 'SAVE' buttons.
- APP HEALTH:** A section with a green checkmark and the text 'Your app is running.' and buttons for 'RESTART' and 'STOP'.
- ACTIVITY LOG:** A list of events with timestamps and descriptions, such as 'started javaCache-garylin app' and 'updated javaCache-garylin app'.
- ADD A SERVICE** and **BIND A SERVICE**: Buttons for adding and binding services.
- Data Cache**: A service card with a 'Show Credentials' button and a 'free' label.
- Monitoring and Analytics**: A service card with a 'Show Credentials' button and a 'Free' label.
- Estimate the cost of this app**: A button with a right arrow.

Step 7: On the JazzHub web editor, find WebContent > index.html

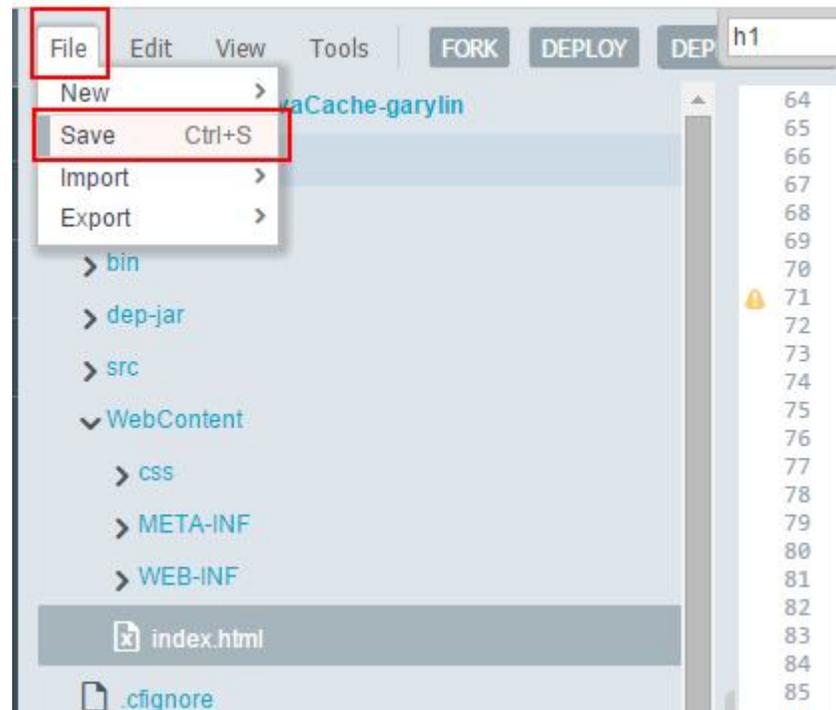


Step 8: Change the content of the <h1> title

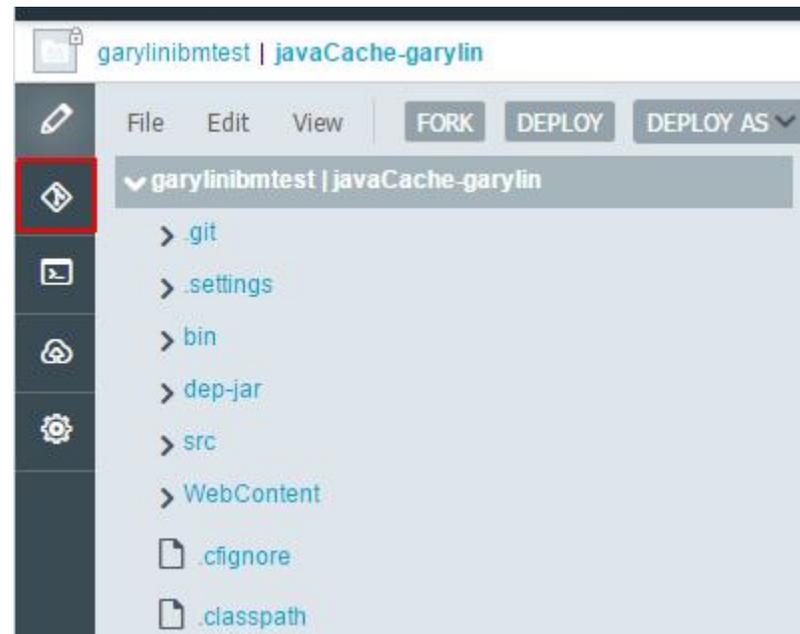
(Hint: use Ctrl-F to search for "h1")

```
64         document.getElementById('value').value = "";
65     }
66     document.getElementById('echo').innerHTML = result;
67 }
68     sendRequest('all');
69 }
70 }
71 }
72
73     ajaxRequest.open("GET", "/ecaas?operation=" + operation + "&key=" + key +
74     ajaxRequest.send(null);
75 }
76
77     function getClicked() {
78         if(hasInputKey())
79             sendRequest('get');
80     }
81     function putClicked() {
82         if(hasInputKey())
83             sendRequest('put');
84     }
85     function deleteClicked() {
86         if(hasInputKey())
87             sendRequest('delete');
88     }
89 </script>
90 </head>
91 <body onload="load();">
92     <h1>
93     Welcome to <span class="blue">Java Web Starter</span> on Bluemix!
94     <br />
95     *** Modified using IBM DevOps Services ***
96     </h1>
97     <br />
98     <div class = "description">This sample demonstrates how to use the Java Native
99     <br />
100     <div class="container" style="color: black">
101         <h2>Grid Operations:</h2>
```

Step 9: Save the changes using File > Save



Step 10: Switch to “Git Repository” view



Step 11: View the changes, add comment, and COMMIT

REPOSITORY: garylinibmtest | javaCache-garylin REFERENCE: master => origin/master

Active Branch (master) SYNC

Working Directory Changes
4 files changed: 4 files ready to commit.

OUTGOING (0) PUSH

INCOMING (0) FETCH

HISTORY

- Add starter application package
Gary Lin on 2014/11/2 下午9:19:50
- Initial commit
Git @ IBM DevOps Services on 2014/11/2 下午9:19:42

Working Directory Changes

Changed title text.

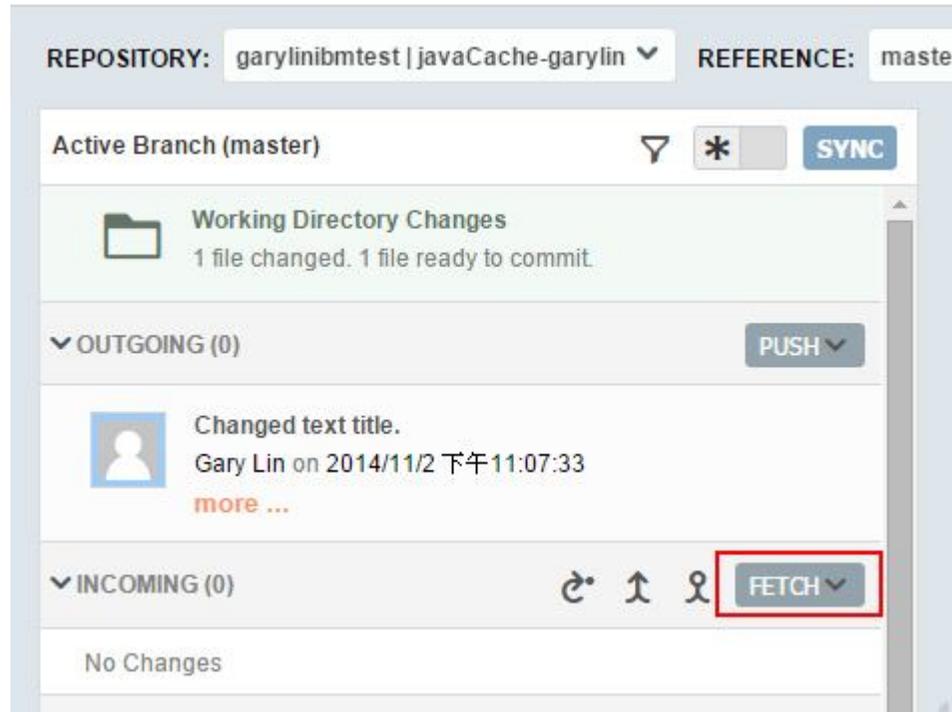
Amend previous commit Add Change-ID to message

Select All 4 files selected

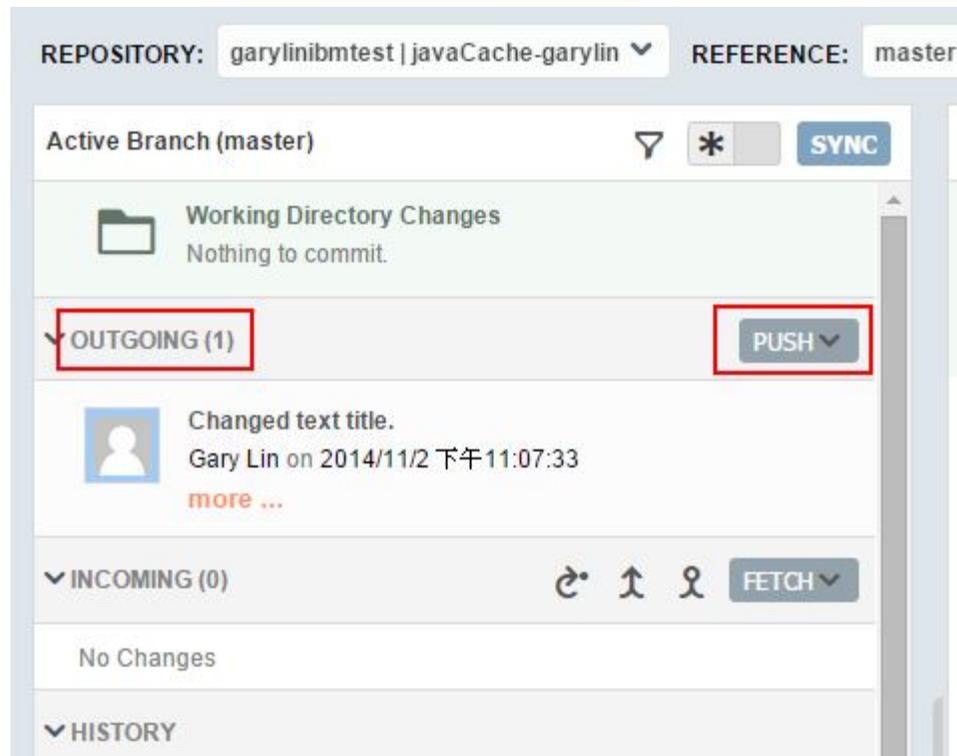
- .cignore
- .gitignore
- project.json
- WebContent/index.html

```
85 85     function deleteClicked() {
86 86         if(hasInputKey())
87 87             sendRequest('delete');
88 88     }
89 89 </script>
90 90 </head>
91 91 <body onload="load();">
92 92     <h1>
93 93         Welcome to <span class="blue">Java Web Starter</span> on Bluemix!
94 94     <br/>
95 95     *** Modified using IBM DevOps Services ***
```

Step 12: Click FETCH to sync with remote master



Step 13: PUSH the outgoing changes to remote repository



Step 13 (cont'd)

The screenshot displays the IBM DevOps Services interface for a repository named 'garylinibmtest | javaCache-garylin'. A green notification box at the top right, outlined in red, shows the 'Push Result: [OK] master => origin/master' and 'Processing changes: refs: 1, done'. Below this, the 'REPOSITORY' and 'REFERENCE' are set to 'garylinibmtest | javaCache-garylin' and 'master => origin/master' respectively. The 'Active Branch (master)' section shows 'Working Directory Changes' with 'Nothing to commit.' and a 'SYNC' button. The 'OUTGOING (0)' section shows 'No Changes' and a 'PUSH' button. A tooltip over the 'PUSH' button reads 'Push commits and tags from your local branch into the remote branch'. At the bottom right, there are checkboxes for 'Amend previous commit' and 'Add Change-ID to'.

Step 14: Switch to BUILD & Deploy

garylinntu | javaCache-garylin-1

EDIT CODE TRACK & PLAN BUILD & DEPLOY

OFF SIMPLE ADVANCED REQUEST DEPLOY

Warning: You are deploying a Java WAR file as part of your application. If you modify the Java source you'll need to rebuild the WAR file or your changes won't be deployed. You can build Java apps using ADVANCED Build & Deploy, or you can rebuild the WAR using desktop tools and commit the new WAR file into the repo yourself.

Git URL: <https://hub.jazz.net/git/garylinntu/javaCache-garylin-1>

Deploy from: refs/heads/master

Deploy to: [javaCache-garylin-1](#) [javaCache-garylin-1.mybluemix.net](#)

CONFIGURE REFRESH

Status	Result	Comment	Committer	Started	Logs
✓	OK	change title text for demo	Gary Lin	Less than one minute ago	Log



Step 15: Request a build and auto deploy it to Bluemix

Note: It may take some time to complete the build and deployment.

The screenshot shows the Bluemix pipeline configuration interface. At the top, there are three tabs: 'OFF', 'SIMPLE', and 'ADVANCED'. The 'ADVANCED' tab is selected and highlighted with a red border. Below the tabs, the pipeline configuration is displayed. On the left, under the 'Pipeline' heading, there are two main sections: 'Git Repo' and 'Builder'. The 'Git Repo' section shows 'master' as the branch and 'change title text for demo' as the latest commit. The 'Builder' section shows 'Ant' as the builder and a 'REQUEST BUILD' button highlighted with a red border. Below the 'Builder' section, there is a 'Last Build' section with a 'Show History' link and a 'No Builds' message. On the right, there is a 'dev US South' environment section showing 'No deployments'. Below this, there is a 'javaCache-gary...' build in progress, indicated by a green dot and the word 'Running'. Below the build, there is a 'No build info' message. To the right of the environment section, there is a plus sign icon and the text 'add a stage'.

Step 15: Request a build and auto deploy it to Bluemix (cont'd)

Note: It may take some time to complete the build and deployment.

OFF SIMPLE **ADVANCED**

Pipeline

Git Repo 
master
Latest Commit:
change title text for demo

Builder
Ant
REQUEST BUILD

Last Build [Show History](#)

 **Build 1** ▼

dev US South 

 **Deployment 1 Success**

javaCache-gary... Running 

Deployed 3 minutes ago

Build 1 ▼


add a stage

Step 16: Check your changes on Bluemix

Welcome to Java Web Starter on Bluemix!
***** Modified using IBM DevOps Services *****

This sample demonstrates how to use the Java Native API to access the [Data Cache](#) service.

Grid Operations:

Key:

Value:

Grid Entries:

Key	Value
<hr/>	

Lab #3 completed!

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Next step

- Start play with the [Starters and Services](#) on Bluemix
 - Click “[VIEW DOCS](#)” to find all the information you need
- Visit [COMMUNITY](#) resource to interesting samples, discussions, Q&As, and related events.



The image shows a service card for 'User Modeling' by IBM. At the top is a green hexagonal icon with a person silhouette and various symbols. Below the icon, the text reads 'User Modeling' and 'IBM'. Further down, it specifies 'PUBLISH DATE 10/7/2014' and 'TYPE Service'. At the bottom of the card, there is a red-bordered button labeled 'VIEW DOCS'.

