

Java Plays: Eclipse Lab 2

Continuous Integration using DevOps

Presented by:

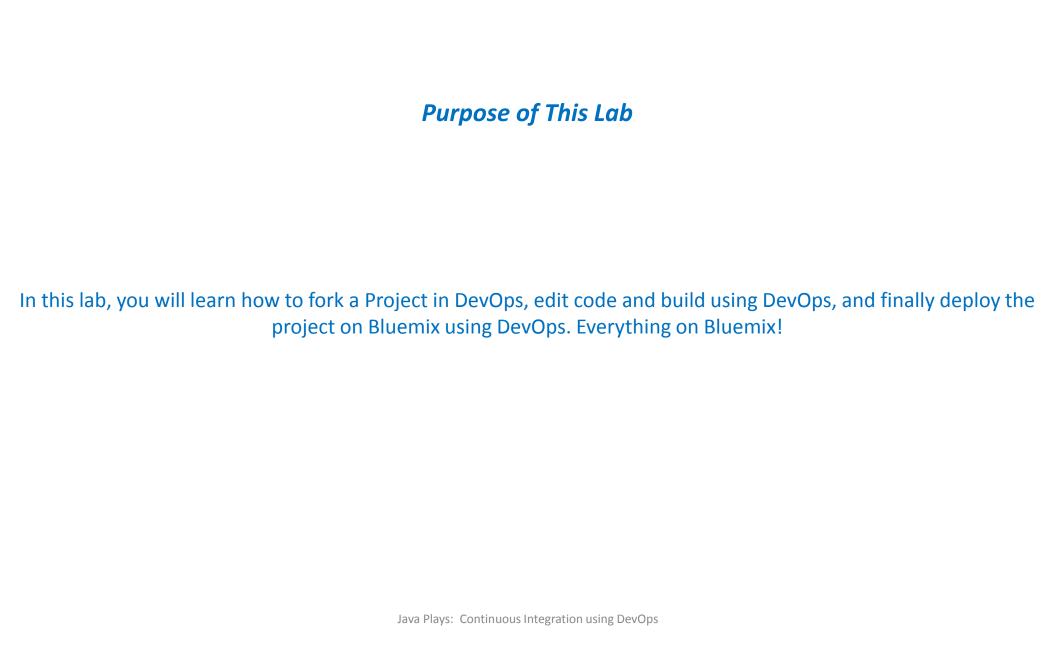
IBM

ECOD

IBM Cloud

AGENDA

□Purpose of This Lab		
□Step 1:	Fork DevOps Services Project	
□Step 2:	Configure and Run Build and Deploy Pipeline	
□Step 3:	Test App with Postman	
□Step 4:	Modify Code in DevOps	
□Step 5:	Push to Trigger Pipeline	
□Step 6:	Test App with Postman	
□Summary		

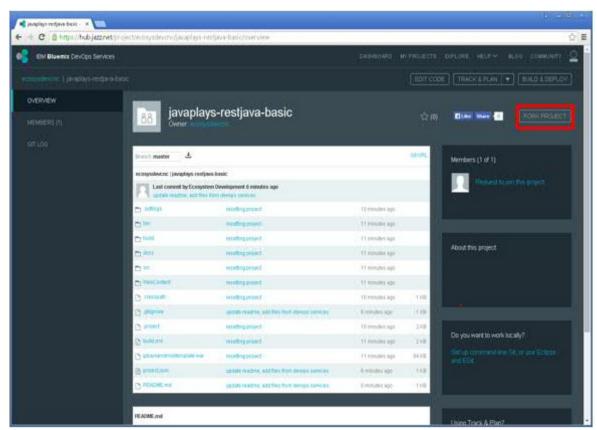


Step 1: Fork DevOps Services Project

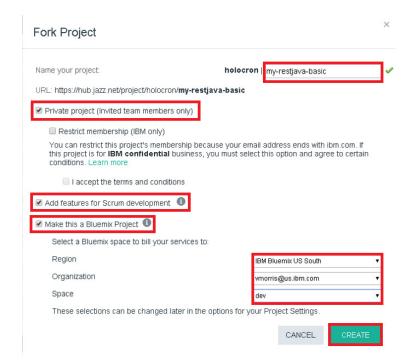
☐ Browse to *hub.jazz.net*

(https://hub.jazz.net/project/ecosysdevcnc/javaplays-restjava-basic/overview)

□Click FORK PROJECT



Ц	Enter Project Name
	Check the following checkbox: Private project Add features for Scrum development Make this a Bluemix Project
	Select <i>Region, Organization</i> and <i>Space</i>
	Click <i>CREATE</i>



☐Success Message



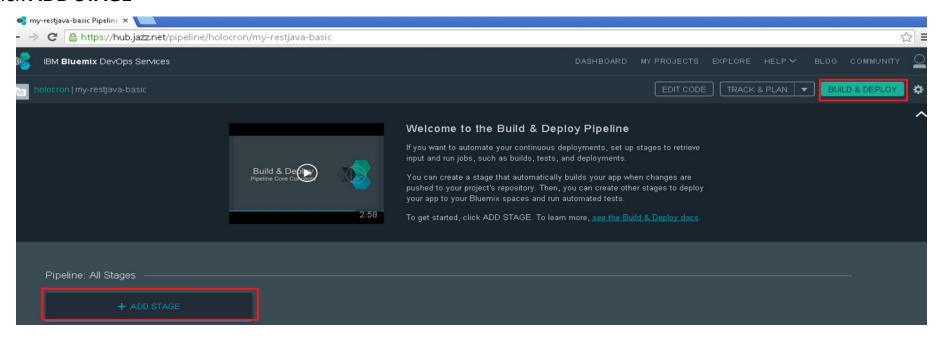
Congratulations! You have successfully created your new project.

Step 2: Configure and Run Build and Deploy Pipeline

To create build and deploy stage

□Click **BUILD & DEPLOY**

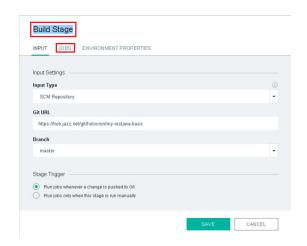
□Click *ADD STAGE*



BUILD STAGE

☐ Enter Stage name

☐Click *JOBS* tab



□Click *ADD JOB*



☐Select *Build*

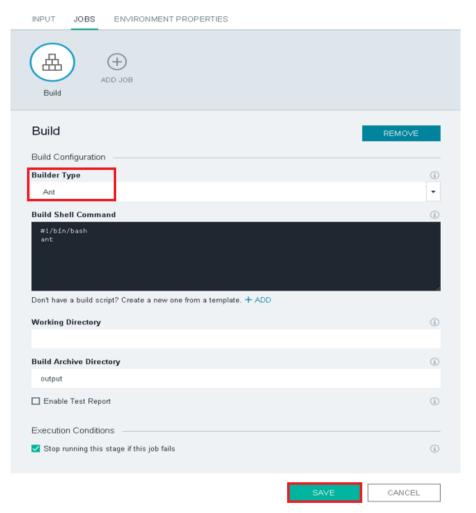


BUILD STAGE (Continue)

☐ Choose *ANT* for Builder Type

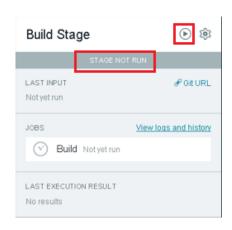
□Click *SAVE*

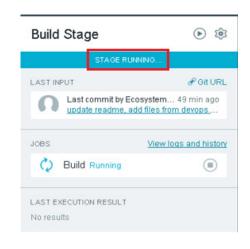


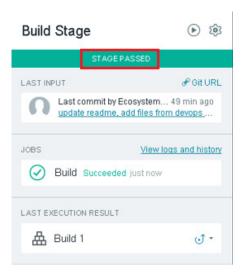


RUN BUILD STAGE

- ☐ See the *Build Stage* at the pipeline
- □Click (Run Stage Icon)
- ☐ Observe *Stage Status* change from *Stage Not Run > Stage Running > Stage Passed*





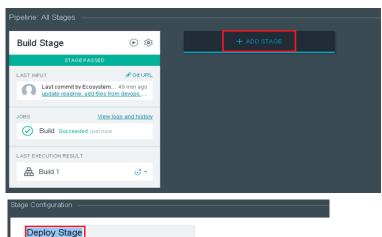


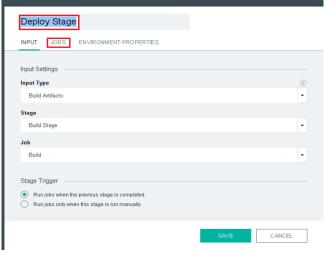
DEPLOY STAGE

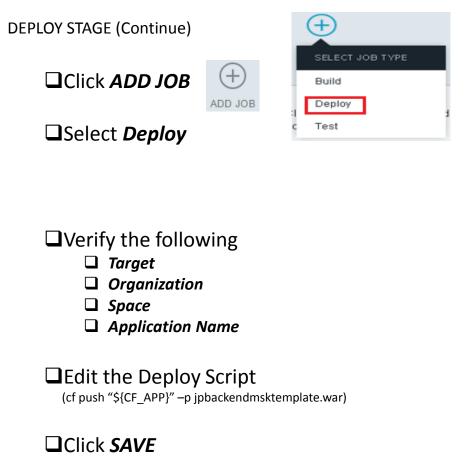
☐ At the Pipeline page, click *ADD STAGE*

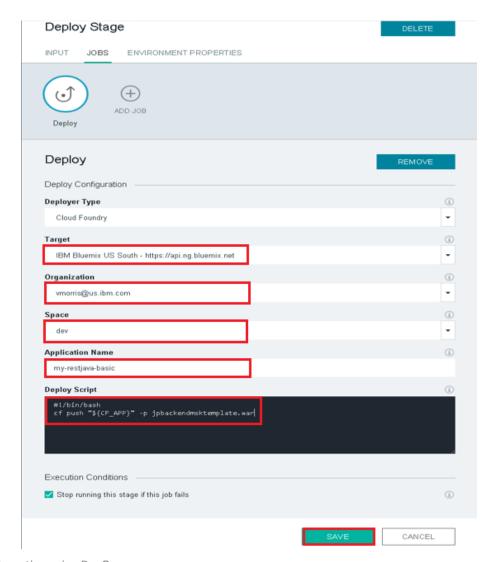
☐ Enter Stage name

☐Click *JOBS* tab



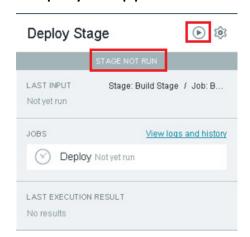


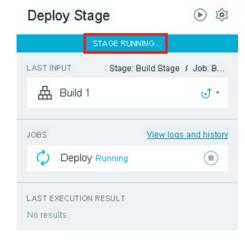


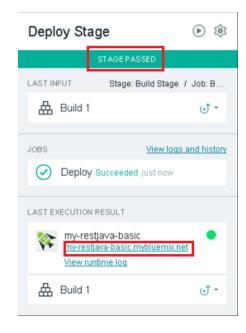


RUN DEPLOY STAGE

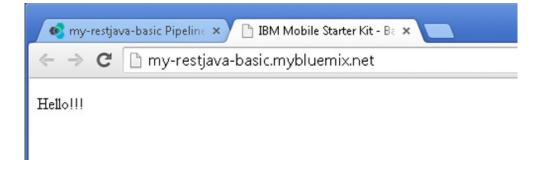
- ☐ See the *Deploy Stage* at the pipeline
- □Click (Run Stage Icon)
- ☐ Observe *Stage Status* change from *Stage Not Run > Stage Running > Stage Passed*
- □Click on the link <your hostname>.mybluemix.net to access the deployed application







☐Success page

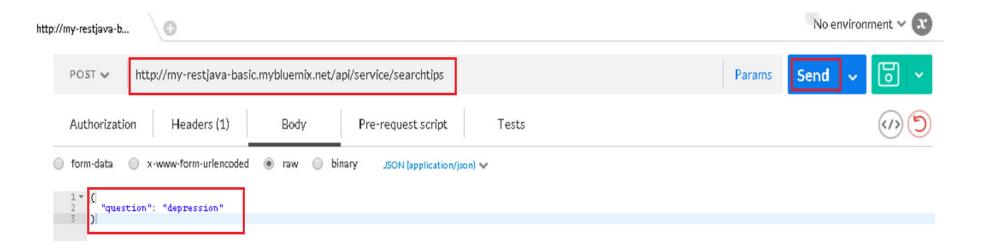


Step 3: Test App with Postman

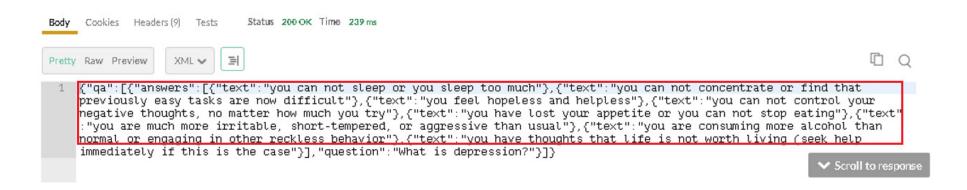


☐Success message



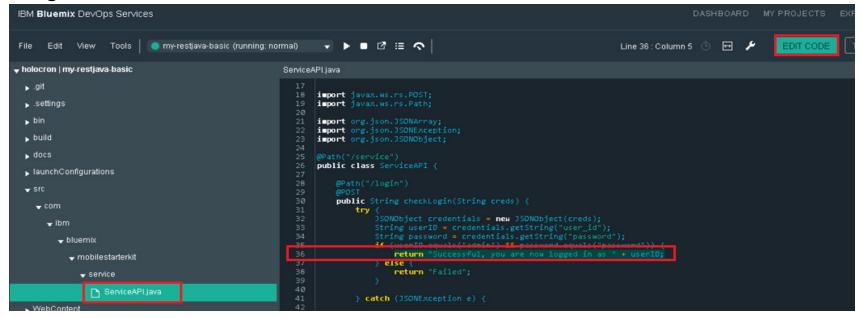


☐Success message

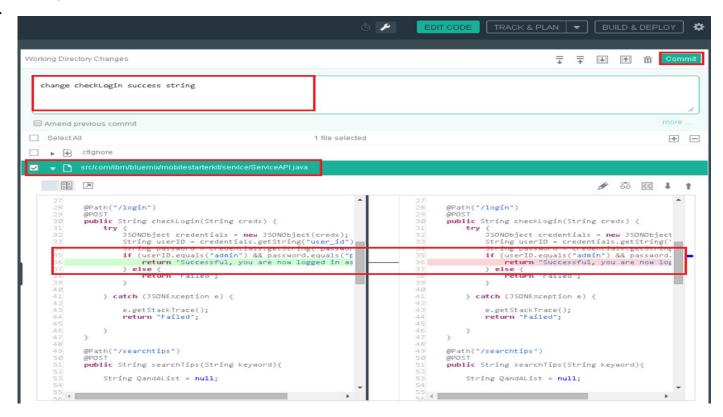


Step 4: Modify Code in DevOps

- □Click *EDIT CODE*
- ☐Go to src > com > ibm > bluemix > mobilestarterkit > ServiceAPI.java
- ☐ Edit line 36 to change the success message returned during Postman API POST call
- **□***Save* the changes



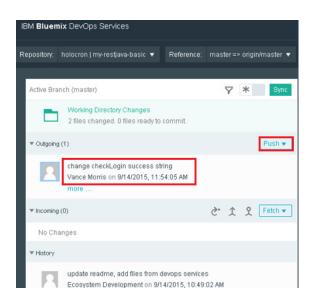
- □Click *Git Repository* icon
- □View and compare **before** and **after** changes
- ☐ Add commit message
- □Click *Commit*



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Step 5: Push to Trigger Pipeline

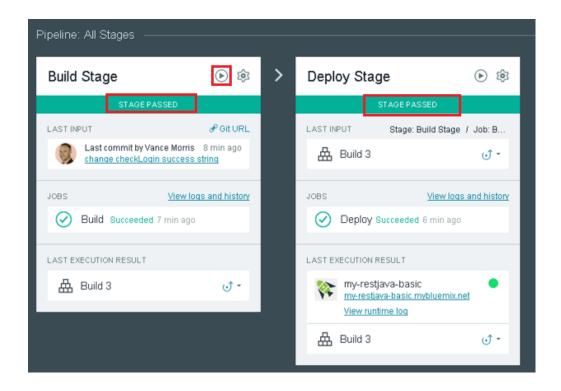




□Success message

Pushing to remote: origin/master succeeded

- □Click **BUILD & DEPLOY**
- ☐On the **Build Stage**, click **(Run Stage button)**
- ☐ Wait till you see both **Build Stage and Deploy Stage** with status **STAGE PASSED**



Step 6: Test Modified App with Postman



☐Success message



Summary

In this lab, you learned how to fork a Bluemix project from an existing one, to create the build and deploy stage, to edit the project using DevOps service, to commit and push the changes.

The entire Java application development and deployment cycle can be implemented on a single platform!

