Lab 5: Add Slack Integration

Objective

This lab show how to integrate your toolchain with Slack. Slack provides real-time messaging for team communications. You can integrate Slack with your Bluemix DevOps Services project so that notifications about build results from your Build & Deploy pipeline are posted on a Slack channel.

Tasks:

- Task 1: Log into Slack
- Task 2: Add Slack to Toolchain
- Task 3: Verify Slack works by breaking application build
- Task 4: Fix application

Task 1: Log into Slack

1. Go to: https://slack.com/.
2. Click on **sign in**.
3. Enter **BluemixDevOpsLab** as the Domain name and click **Continue**.
4. Enter **BluemixCloudDeveloper@gmail.com** as the eMail address and **devops4me** as the password. Click on **Sign in**.
5. You are now access the BluemixDevOpsLab Slack team.

Task 2: Add Slack to Toolchain

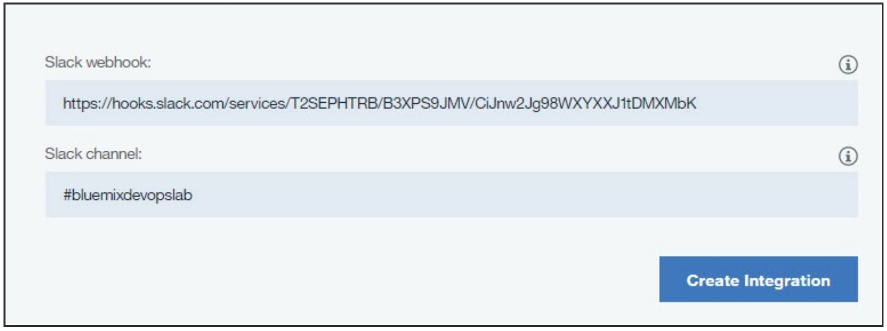
1. On the devops-toolchain-lab toolchain's Tool Integrations page, click **Add a Tool**

2. Select **Slack**

3. On the Slack Configuration page:

    - Enter the following all as one string as the Slack webhook.
      https://hooks.slack.com/services/

      T2SEPHTRB/B3XPS9JMV/CiJnw2Jg98WXYXXJ1tDMXMbK
    - Enter **#bluemixdevopslab** as the Slack channel.



Slack webhook:

https://hooks.slack.com/services/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

Slack channel:

#bluemixdevopslab

4. Click **Create Integration**

Task 3: Add Eclipse Orion Web IDE to Toolchain

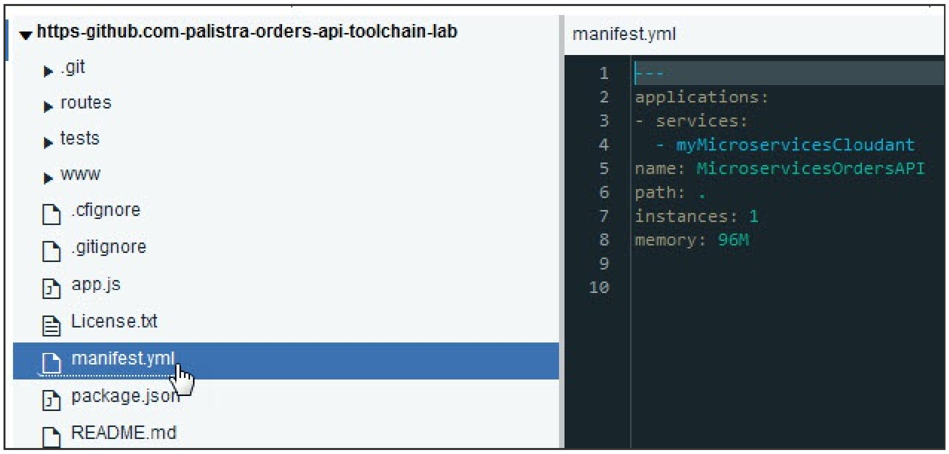
We want to modify the application and one way is to use the Web IDE.

If you already added the Eclipse Orion Web ID to the toolchain,go to the next Task (to break the application build).

1. On the toolchain's Tool Integrations page, click **Add a Tool**
2. Select **Eclipse Orion Web IDE**.
3. No configuration is needed. so click **Create Integration**.

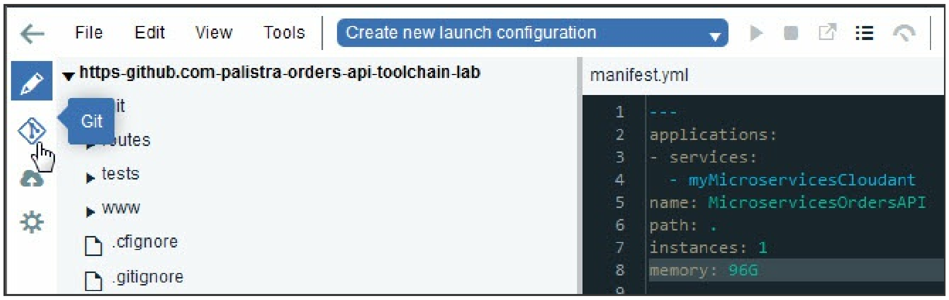
Task 4: Verify Slack works by breaking application build

1. On the toolchain's Tool Integrations page, click the **Eclipse Orion Web IDE** tile. The GitHub repos are automatically loaded in your workspace. The Web IDE workspace is on the cloud.
2. In the file navigator, expand the *githubuserid*orders-api-toolchain_lab repo (if needed).
3. In the file directory, click manifest.yml to open the file.



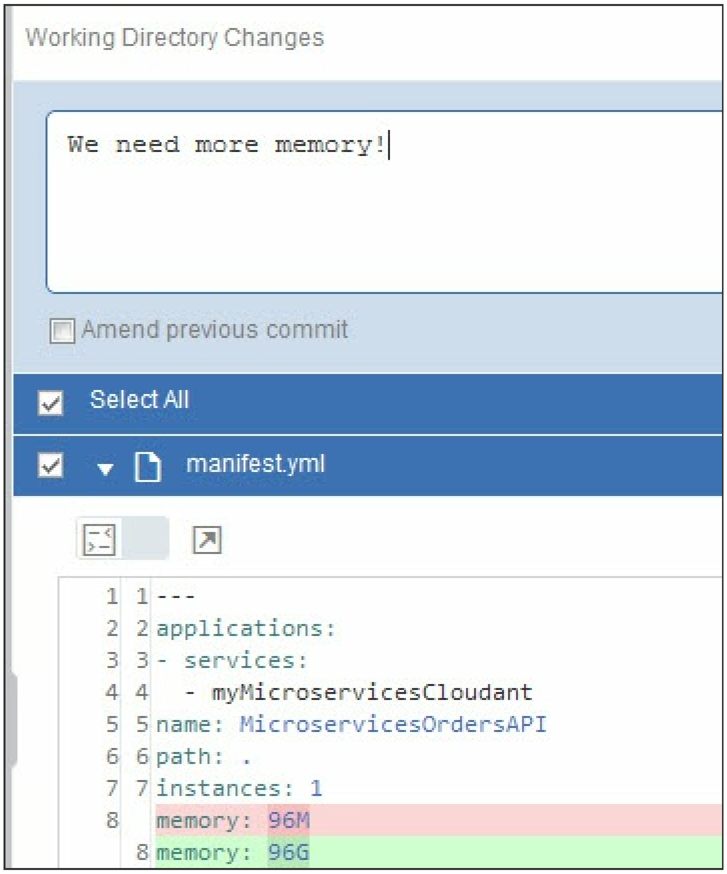
```
---
applications:
- services:
  - myMicroservicesCloudant
name: MicroservicesOrdersAPI
path: .
instances: 1
memory: 96M
```

4. Update the value for memory to 96g. This setting intentionally increases your memory to exceed the quota for your org. Your changes are automatically saved.
5. Now to Push the changes. From the Eclipse Orion Web IDE menu, click the **Git** icon.


File
Edit
View
Tools
Create new launch configuration
Git
https-github.com-palistra-orders-api-toolchain-lab
it
utes
tests
www
.cfignore
.gitignore
manifest.yml

```
---
applications:
- services:
  - myMicroservicesCloudant
name: MicroservicesOrdersAPI
path: .
instances: 1
memory: 96G
```

6. In the Working Directory Changes section, which is in the upper-right corner of the window, make sure that the changed file is selected. Enter a relevant comment.



Working Directory Changes

We need more memory!

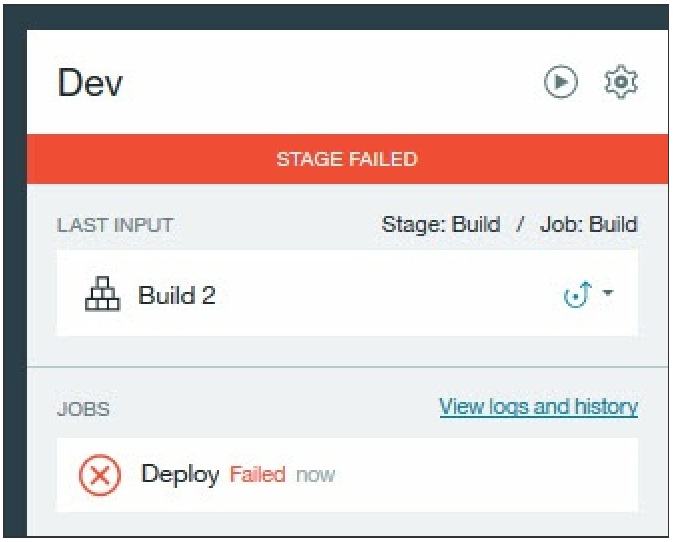
□ Amend previous commit

☑ Select All

☑ manifest.yml

```
---
applications:
- services:
  - myMicroservicesCloudant
name: MicroservicesOrdersAPI
path: .
instances: 1
memory: 96M
memory: 96G
```

7. Click **Commit** to put the changes in the local master branch.
8. Put these changes in the origin/master branch and click **Push**. Your changes are automatically built and deployed in the pipeline.
9. Return to devops-toolchain-lab toolchain's Tool Integrations page and click the pipeline tile for the orders-api microservice to watch the stages run in response to your commit (you may have to manually start the Build if it does not start automatically).
10. The Deploy fails.



Dev

STAGE FAILED

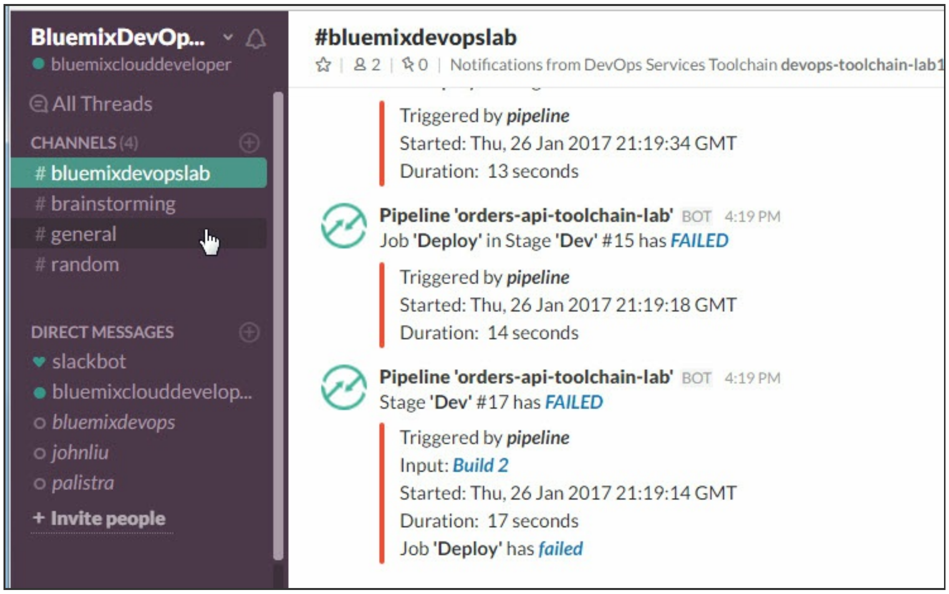
LAST INPUT Stage: Build / Job: Build

Build 2

JOBS View logs and history

Deploy Failed now

11. The Slack bluemixdevopslab channel displays the progress and failure:



#bluemixdevopslab

☆ | 2 | 0 | Notifications from DevOps Services Toolchain **devops-toolchain-lab1**

Triggered by ***pipeline***
Started: Thu, 26 Jan 2017 21:19:34 GMT
Duration: 13 seconds

Pipeline 'orders-api-toolchain-lab' BOT 4:19 PM
Job **'Deploy'** in Stage **'Dev'** #15 has ***FAILED***

Triggered by ***pipeline***
Started: Thu, 26 Jan 2017 21:19:18 GMT
Duration: 14 seconds

Pipeline 'orders-api-toolchain-lab' BOT 4:19 PM
Stage **'Dev'** #17 has ***FAILED***

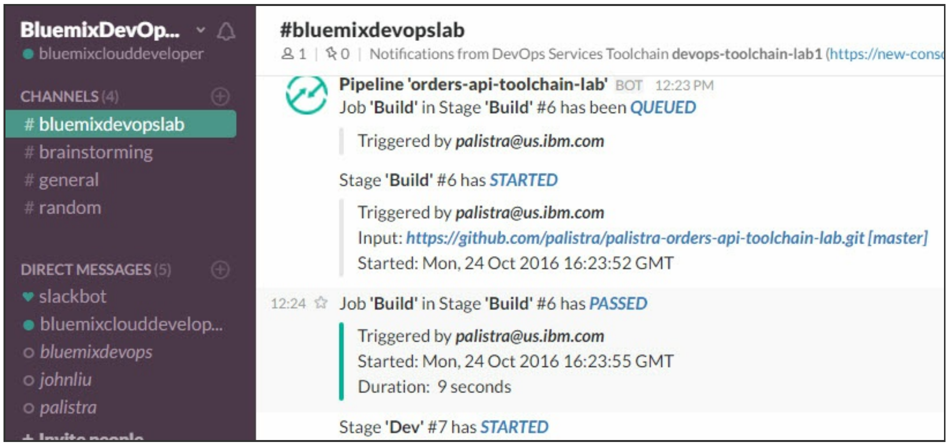
Triggered by ***pipeline***
Input: ***Build 2***
Started: Thu, 26 Jan 2017 21:19:14 GMT
Duration: 17 seconds
Job **'Deploy'** has *failed*

12. If you completed the PagerDuty lab successfully with a valid email account, that account will have an email. The link in the email will allow you to view the incident on PagerDuty.

Task 5: Fix application

Now to fix the application.

1. On the toolchain's Tool Integrations page, click the **Eclipse Orion Web IDE** tile.
2. In the file navigator, expand the orders-api-toolchain_name repo (if needed).
3. In the file directory, click manifest.yml to open the file.
4. Update the value for memory to 96m.
5. Now to Push the changes. From the Eclipse Orion Web IDE menu, click the **Git** icon.
6. In the Working Directory Changes section, which is in the upper-right corner of the window, make sure that the changed file is selected.
7. Click **Commit** to put the changes in the local master branch.
8. Put these changes in the origin/master branch and click **Push**. Your changes are automatically built and deployed in the pipeline.
9. Return to your toolchain's Tool Integrations page and click the pipeline tile for the orders-api microservice to watch the stages run in response to your commit (you may have to manually start the Build if it does not start automatically).
10. The deploy is successful. And all the downstream stages run afterwards. And the Slack bluemixdevopslab channel displays the progress and success.



#bluemixdevopslab

1 | 0 | Notifications from DevOps Services Toolchain **devops-toolchain-lab1** (https://new-cons

Pipeline 'orders-api-toolchain-lab' BOT 12:23 PM
Job **'Build'** in Stage **'Build'** #6 has been ***QUEUED***

Triggered by ***palistra@us.ibm.com***

Stage **'Build'** #6 has ***STARTED***

Triggered by ***palistra@us.ibm.com***
Input: ***https://github.com/palistra/palistra-orders-api-toolchain-lab.git [master]***
Started: Mon, 24 Oct 2016 16:23:52 GMT

12:24 ☆ Job **'Build'** in Stage **'Build'** #6 has ***PASSED***

Triggered by ***palistra@us.ibm.com***
Started: Mon, 24 Oct 2016 16:23:55 GMT
Duration: 9 seconds

Stage **'Dev'** #7 has ***STARTED***