## **Lab 4: Add PagerDuty Integration**

## **Objective**

This lab show how to integrate your toolchain with PagerDuty so people get notified when things go wrong so problems can be fixed faster and reduce downtime.

#### **Prerequisites**

If you want to see email notifications from PagerDuty, you will need access to an eMail account. Once the integration is created, you can check that account to accept the invitation to join PagerDuty.

#### Tasks:

- Task 1: Add PagerDuty to Toolchain
- Task 2: Verify PagerDuty works by breaking application build
- Task 3: Fix application

#### Task 1: Add PagerDuty to Toolchain

- 1. On the devops-toolchain-lab toolchain's Tool Integrations page, click Add a Tool
- 2. Select PagerDuty
- 3. On the PagerDuty Configuration page:
  - Enter 7x-RJtTJr9H-wCn-aJCk as the API access key
  - Enter "devopslab" as the PagerDuty service name
  - Enter an email address you can access. Leave the phone number blank unless you want to receive text messages.
- 4. Click Create Integration



5. You can access the eMail account to accept the PagerDuty invitation.

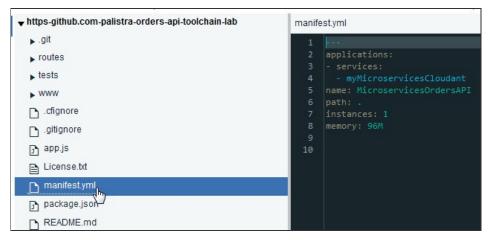
# **Task 2: Add Eclipse Orion Web IDE to Toolchain**

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

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

## Task 3: Verify PagerDuty works by breaking application build

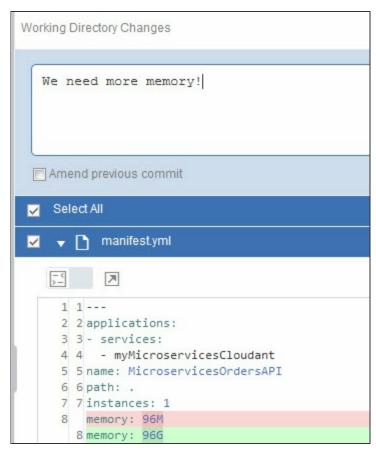
- 1. On the toolchain's Tool Integrations page, click the **Eclipse Orion Web IDE** tile. The GitHub repos are automatically loaded in your workspace. The Web IDE workspace is on the cloud.
- 2. In the file navigator, expand the orders-api-toolchain\_name repo (if needed).
- 3. In the file directory,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



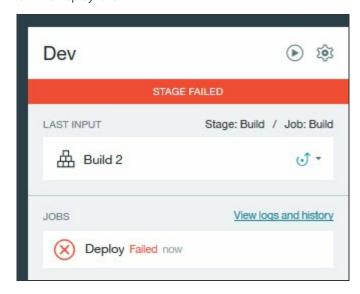
- 4. Update the value for memory to 96**g**. This setting intentionally increases your memory to exceed the quota for your org. Your changes are automatically saved.
- 5. Now to Push the changes. From the Eclipse Orion Web IDE menu, click the **Git** icon.



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.



- 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 ordersapi 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.



11. The PagerDuty console (https://devopslab01.pagerduty.com/incidents) shows the incident:



entered when you setup the PagerDuty integration will have an alert. The link in the email will allow you to view the incident on PagerDuty (assuming you accepted the invitation from PagerDuty).



### **Task 4: 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.

