Modern Cloud-native Java runtimes performance monitoring on Red Hat Openshift

WORKSHOP MODULES

Deploying the Applications

Introduction

In this module you'll learn how to deploy the Java applications using OpenShift Pipelines (based on Tekton (https://tekton.dev/)).

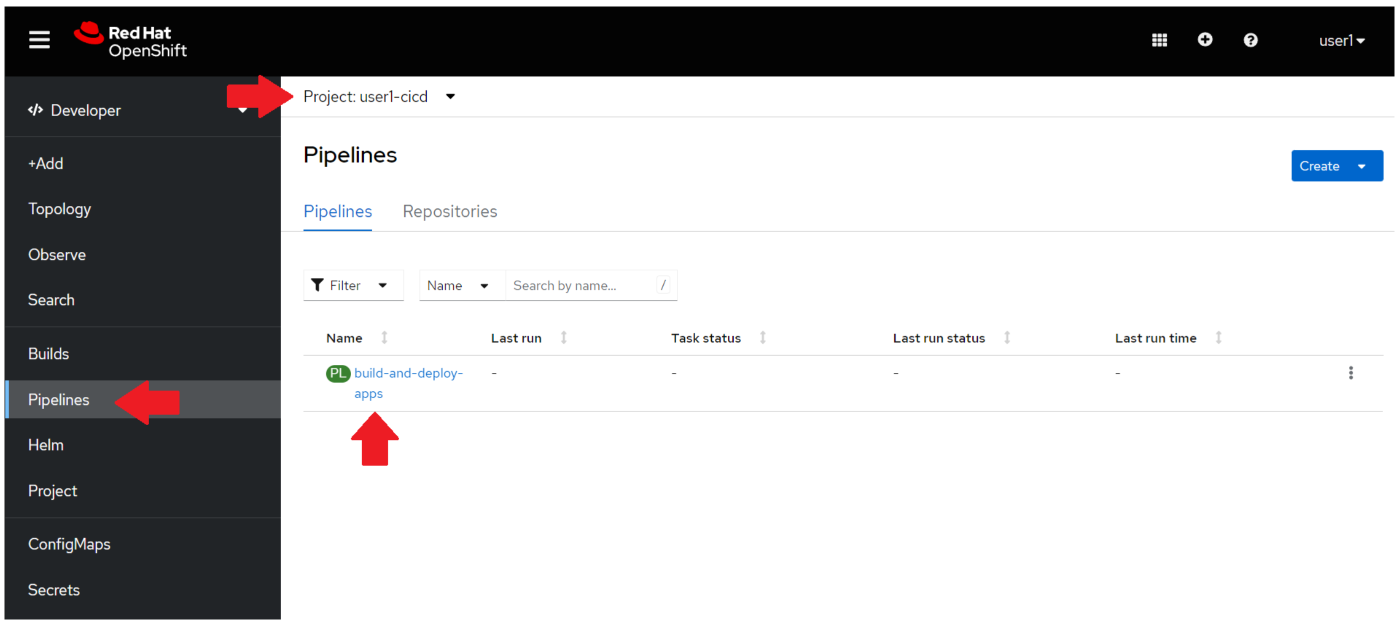
Tekton is a CI/CD tool, made specifically to run on Kubernetes environment. It takes advantage of containers and shared resources, such as volumes (https://kubernetes.io/docs/concepts/storage/volumes/), to create reproducible processes to facilitate the creation of automation pipelines (https://tekton.dev/docs/pipelines/pipelines/).

Recommended reading: What is CI/CD? (https://www.redhat.com/en/topics/devops/what-is-ci-cd#overview)

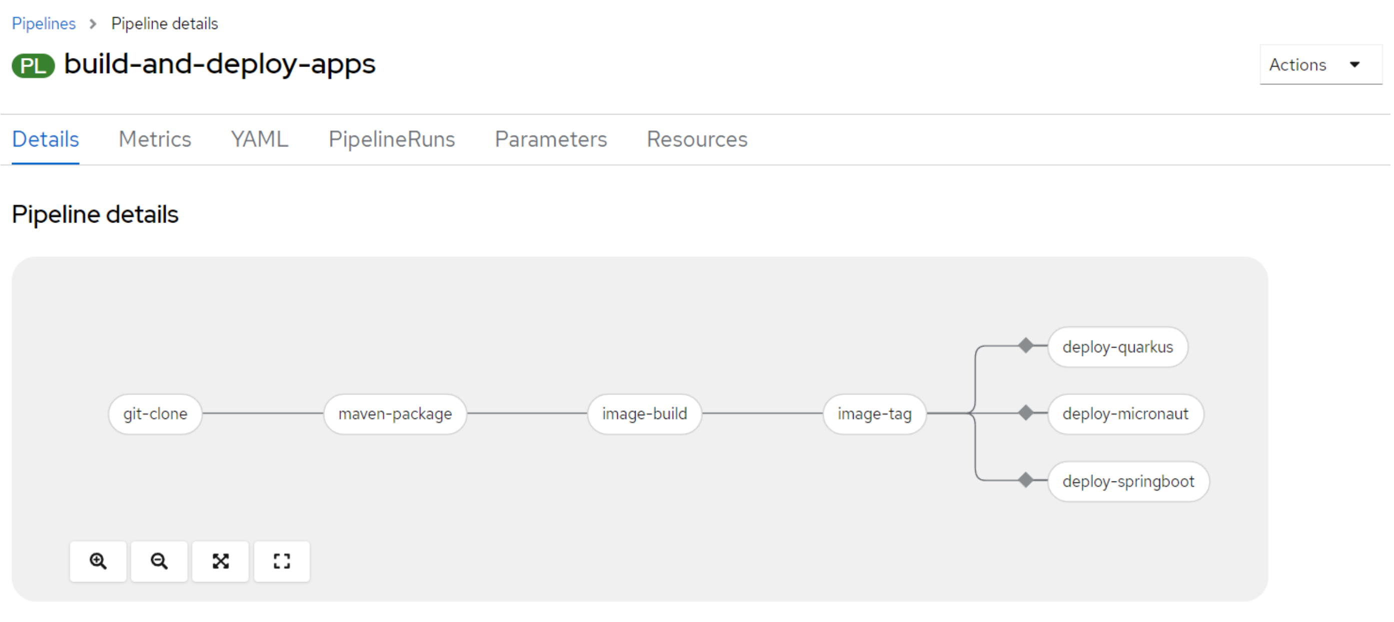
For this Lab session you don't need to create your pipeline from scratch. To accommodate this section in our Lab time-frame, we already provisioned a pipeline for you in the `user18-cicd` namespace. You just need to learn what it does and how to run it.

Understanding the pipeline

Access the user18-cicd project namespace (https://console-openshift-console.apps.cluster-s9gvd.s9gvd.sandbox1869.opentlc.com/dev-pipelines/ns/user18-cicd). Then, on the right side menu, click on **Pipelines**:



if you click on the **build-and-deploy-apps** link, you'll be able to see the pipeline steps.



1. Clone your source code from your fork.

2. Build the Java code using Maven.

3. Build and push the container image to Quay.io

4. Tag the image as **latest**