Contents

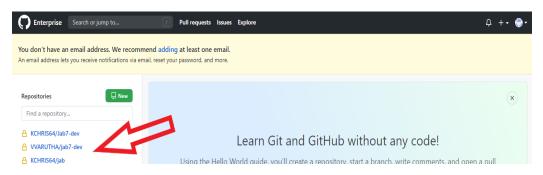
Step 1:	Adding Collaborator to Git Hub	3
Step 2:	OpenShift to GitHub Handshake	4
	GitHub Secret Configuration in OpenShift	4
Step 3:	OpenShift to PCF Handshake	5
Step 4:	PVC Creation	6
Step 5:	Task Creation for Tekton Pipeline	7
Step 6:	Pipeline Creation for Tekton	8
Step 7:	To Run a pipeline	10
Step 8:	PCF	16

Version	Date	Author	Reviewed by
2.0	29-Nov-2021	Kiruba Wincelin	Sundar

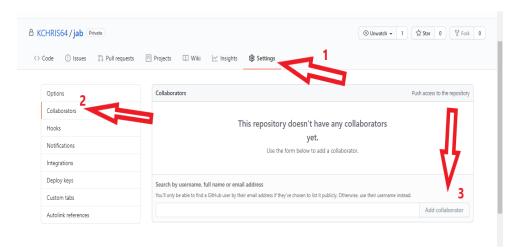
TEKTON-PIPELINE

Step 1: Adding Collaborator to Git Hub

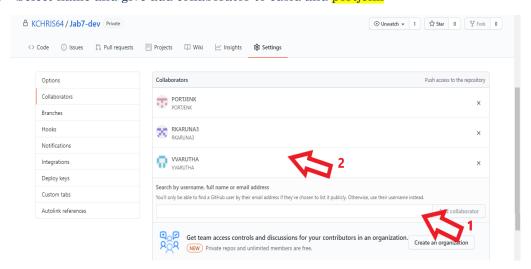
→ Need to select the repository



→ Go to Collaborator

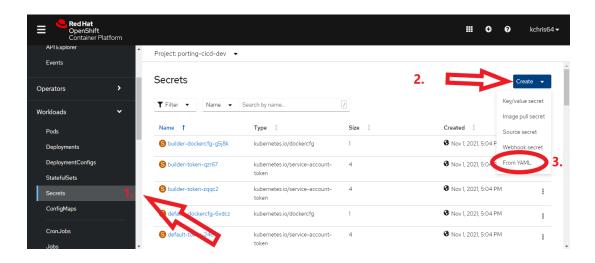


→ Select name and give add collaborator to cdsid and portjenk



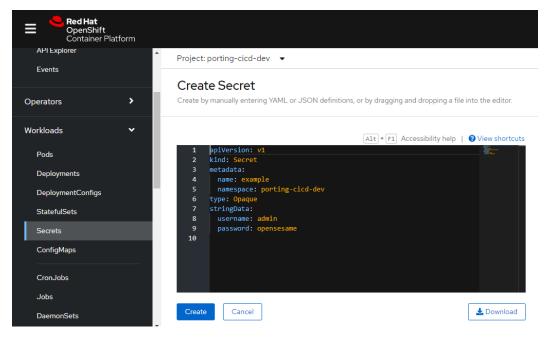
Step 2: OpenShift to GitHub Handshake

→ GitHub Secret Configuration in OpenShift



Select from YAML and

Modify the below yaml So, in below image instead of username and password need to give **SSH Key** and **Known Hosts** and paste the value of the key and host.



To get SSH Key Need to run some command in command prompt

b. Note: To paste commands in the git bash prompt, either middle-click your mouse, or press SHIFT+INSERT. Pressing CTRL+V will not work.

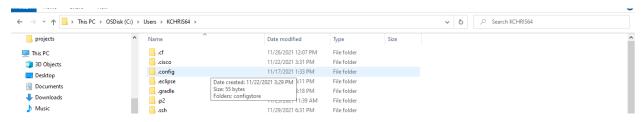
2. Type this command at the prompt. Creating ~/.ssh directory mkdir ~/.ssh

3. Type this command at the prompt. Create an ssh key pair ssh-keygen -t rsa -N '' -f ~/.ssh/id_rsa Your screen will look like this example. > **** SSH Example **** 4. Copy the value in the ~/.ssh/id_rsa.pub file. You can run this command to copy it. cat ~/.ssh/id_rsa.pub | clip

5. Visit https://github.ford.com, click the your avatar at the top-right of the page, click "settings" in the popup menu, click "SSH and GPG keys", select "New SSH key"

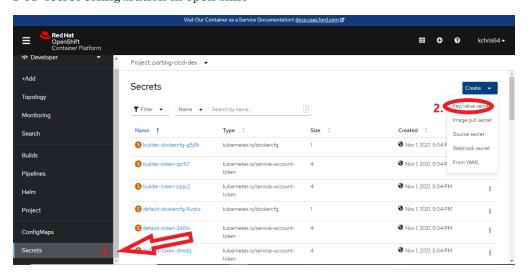
6. Paste the value of your SSH key, and a descriptive title, and click "Add SSH Key"

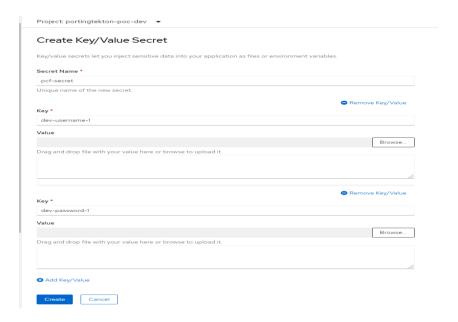
The created ssh key will be in with the file name .ssh refer the below image.



Step 3: OpenShift to PCF Handshake

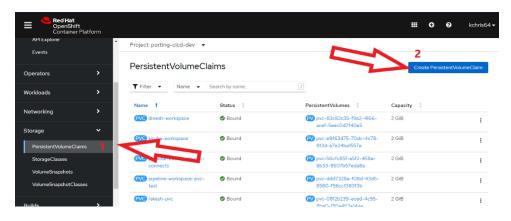
PCF secret configuration in open shift



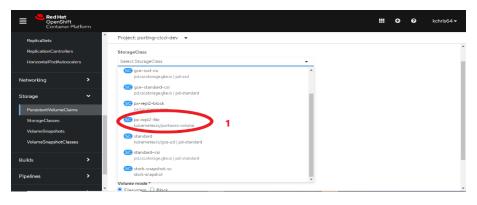


Step 4: PVC Creation

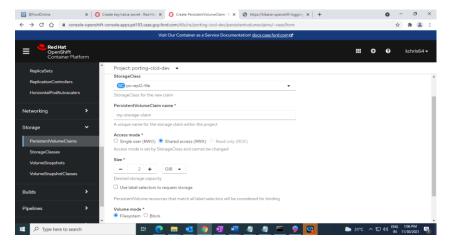
First, we need to create the PVC like the below images.



In Storage class we need to select the px-repl2-file.



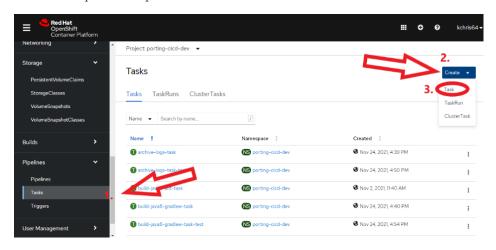
After selecting the storage class, create the PVC Name then change the access mode to shared access, then select the size of the PVC upto 2gb not more than that. Volume mode will be constant, after giving all this details we need to click the create button. Now the PVC will be created.



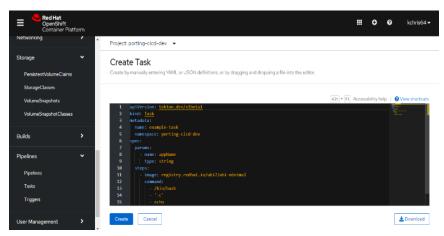
Note: Dynamic PVC Creation is in Progress

Step 5: Task Creation for Tekton Pipeline

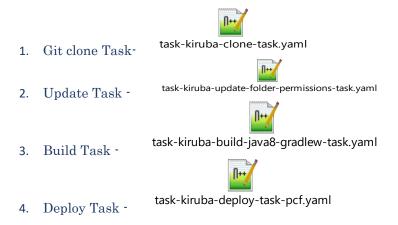
For this step Go to Pipelines -> Task -> Create -> Task



After clicking the task, the screen will look like this



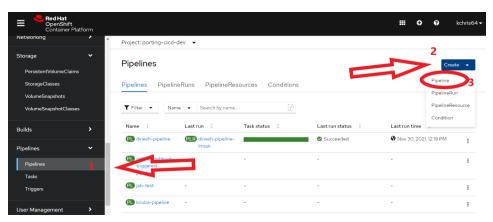
From this yaml file we need to create the following tasks which was given in notepad.



Note: - In this order only we need to create the task.

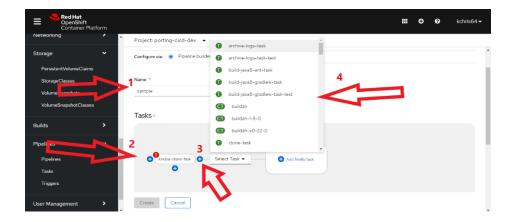
Step 6: Pipeline Creation for Tekton

Go to Pipelines -> Pipeline -> Create-> Pipeline



So here we can create the pipeline in two ways via pipeline builder or yaml view.

Using Pipeline Builder:



So, in

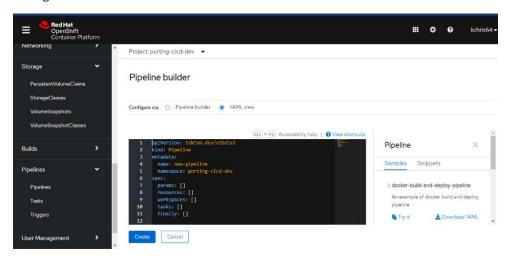
- 1. We need to give the pipeline name
- 2. Need to select the first git clone task like point 4.
- 3. That + icon will be able to add the new task.
- 4. We need to select the second task from the dropdown

Finally, the pipeline will look like below image



Then press the create button, now pipeline will be created.

Using Yaml View:



Yaml view will look like this. Then need to add the pipeline yaml file.

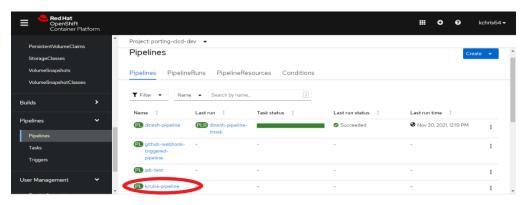


Step 7: To Run a pipeline

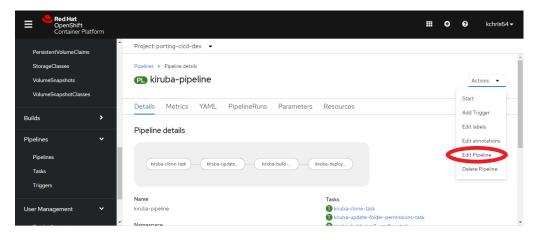
If we want to run the pipeline, we need to do some changes in deploy task file.

How to make change in deploy file:

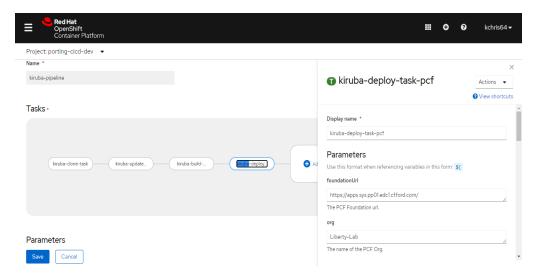
Need to select the pipeline which we have created



Then need to edit the pipeline,



After clicking the edit pipeline, the image will look like below image

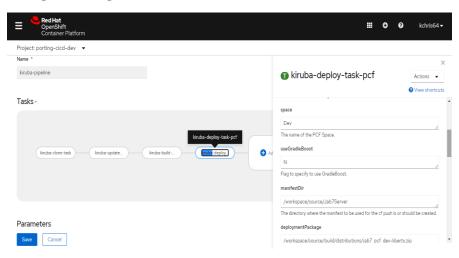


Need to double click the deploy task and edit option will be open like above image.

There we need to add the parameters

In foundation Url: Need to give PCF URL. Ref- https://apps.sys.pp01.edc1.cf.ford.com/

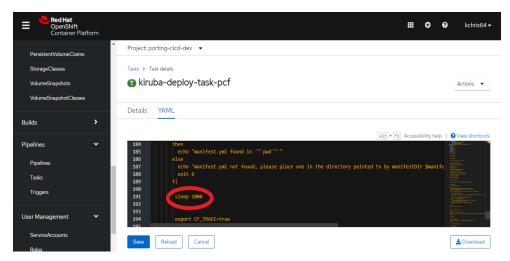
In Org: Need to get from PCF



In Space: Need to give dev space

In manifest Dir: Need to give the manifest path, which was built in Tekton pipeline, to get that path we need to run the pod

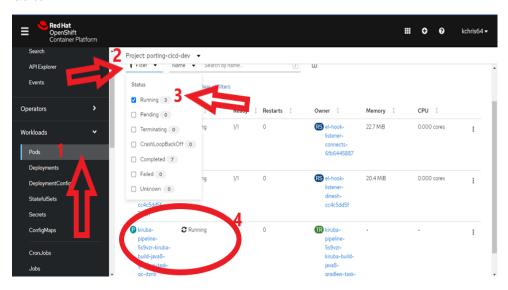
Step 1: In deploy yaml task, we need to add the sleep 1000

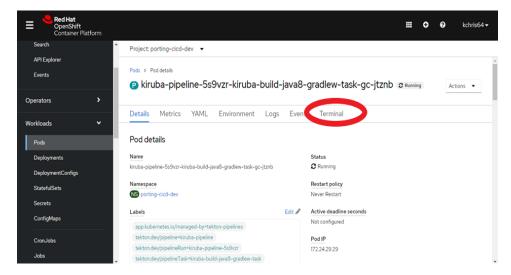


After adding the sleep, we need to run the pipeline, will explain how to run the pipeline later.

Step 2: To get the manifest path

Go to





And give the commands from the below image

```
sh-4.4$ Is
source
sh-4.4$ cf source
sh-4.4$ pas
h-4.6$ pas
h-4.6$
```

Now give the path to the manifest Dir, while editing the deploy task

Like same we need to get for employment package

```
sh-4.45 of source
sh-4.45 of sould
sh-4.45 of sould
sh-4.45 of sould
sh-4.45 of sould
sh-4.45 of sitributions libs top
sh-4.45 of distributions
sh-4.45 of sitributions
sh-4.45 of source/bould/distributions
sh-4.45 of source/bould/distributions
```

Now the path will look like: /workspace/source/build/distributions/jab7_pcf_dev-liberty.zip

In this path default it will be created one dot we need to remove it

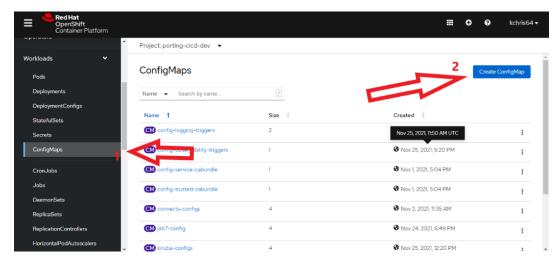
The Zip file will take more time to create

Then Again go to deploy edit pipeline,

In App – Give app name

In Config Name- Give your config name.

To create config file.

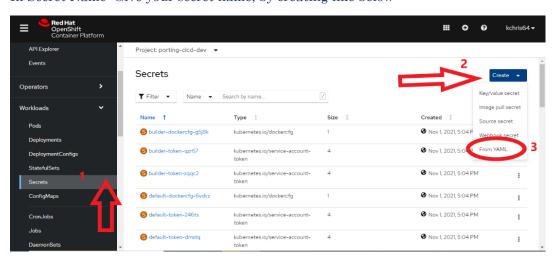




Click Create Config map and add the given yaml file -

configmap-kiruba-configs.yaml

In Secret Name: Give your secret name, by creating like below

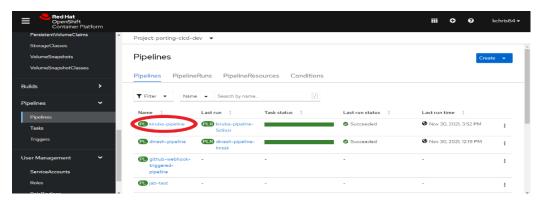




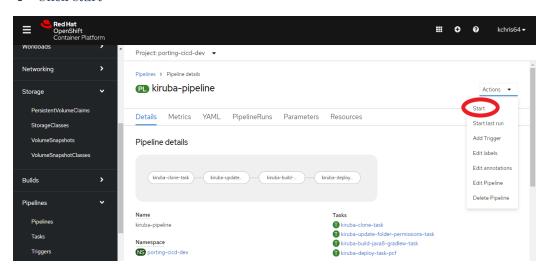
- copy from this file and paste it in from yaml

So, after giving all this details we need to run our pipeline

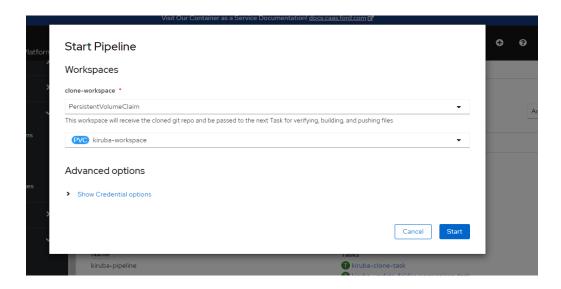
→ Click your pipeline



→ Click start



After clicking start you will be moved to one pop up window there you need select the PVC (Persistent Volume Claims) and give the PVC Name like below image



Now the pipeline will start run. If the pipeline runs successfully It will look like below image

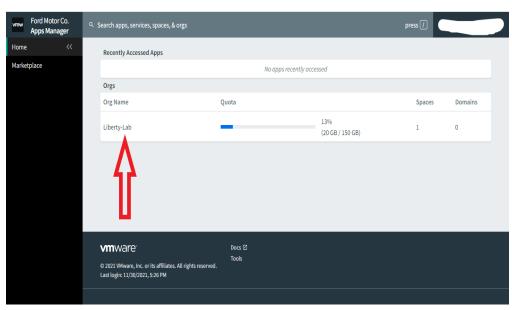


If it fails means red bar will appear.

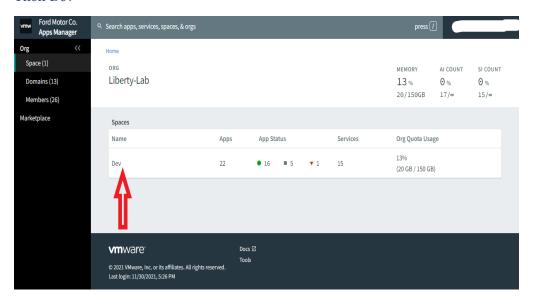
Step 8: PCF

To view the deploy application in PCF we need to do following steps refer the below images

Go to Liberty-lab



Then Dev



In Dev you will see the deployed application is running or stopped

