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Setting up Genesys Multicloud CX Private Edition

Setting up an OpenShift Container Registry

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Instructions to set up an OpenShift Container Registry in your environment.

Related documentation:

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RSS:

• For private edition

This page describes only the procedure to set up an OpenShift Container Registry with generic examples. You still have to manually download the artifacts of your Genesys Multicloud CX service from the JFrog Artifactory Edge repository.

What is OpenShift Container Registry?

OpenShift Container Registry is an in-built container image registry that is available by default as an integrated solution with OpenShift Container Platform. You can configure OpenShift Container Registry to maintain the source images of all Genesys Multicloud CX services running in your clusters.

To get started with OpenShift Container Registry, refer to the OpenShift documentation.

How to set up an OpenShift Container Registry in Genesys Multicloud CX private edition environment?

You can set up an OpenShift Container Registry by exposing its default route and connecting the registry.

Exposing OpenShift Container Registry

The first step in setting up an OpenShift Container Registry is to expose the registry through the default or customized route. You can do so by running the following command.

oc patch configs.imageregistry.operator.openshift.io/cluster --patch
'{"spec":{"defaultRoute":true}}' --type=merge

Once you run the above command, you can find the default route getting updated in the **Host** field. The default route is the location of the image registry which you can connect to perform image related operations such as pull, push, etc.

See an example screenshot showing default route in the Host field for openshift-image-registry

project below.

Red Hat OpenShift				🜲 13 🔹 😯 Magesh Srinivasulu 👻						
📽 Administrator	•	Project: openshift-image-registry		Location						
Home	>	default-route		https://default-route-openshift-image-registry.apps.xv7w6hrc.westus2.aroapp.io 🗗						
Operators	>	Namespace		Status Accepted						
Workloads	>	Labels No labels	Edit 🖋	Host default-route-openshift-image-registry.apps.xv7w6hrc.westus2.aroapp.io						
Networking	~	Annotations		Path -						
Services Routes		Service		Router Canonical Hostname apps.xv7w6hrc.westus2.aroapp.io						
Operators Workloads Networking Services Routes	> > ~	Namespace Service Since registry Namespace No labels Annotations Annotations Service Sinage-registry	Edit 🖋	Status © Accepted Host default-route-openshift-image-registry.apps.xv7w6hrc.westus2.aroapp.io Path - Router Canonical Hostname apps.xv7w6hrc.westus2.aroapp.io						

Additional information on 'Exposing the registry' is available at OpenShift documentation.

Connecting the registry

Once you expose the registry, you can connect to it by using the docker login command given below by providing the **Host** value.

docker login -u > >

Running the above command prompts for password. Provide the password details and proceed further.

Logging into Docker using the example registry and its results are shown in the following screenshot. C:\Users_____\Downloads>docker login -u ma_____v default-route-openshift-image-registry.apps.xv7w6hrc.westus2.aroapp.io Password: Login Succeeded

How to push an image into the registry?

Pushing an image to OpenShift Container Registry is a two step process - tagging and pushing. It is similar to pushing an image using docker push command.

Important

Practically, you will place the downloaded images in a dedicated quarantine location for security scans. Once the image passes the security scans defined by your organization, you will decide to push the image into your container registry.

An example of pushing the latest version of postgreSQL is shown in the

screenshots.

• **Tagging** - the first step is to tag the image with appropriate version name. docker tag >:> >/>/>:>

C:\Users\masriniv\Downloads>docker tag bitnami/postgresql:latest default-route-openshift-im	age-regist	ry.apps.xv7w6hr	c.westus2.aroap	pp.io/bitnami/postgresql:lat
C:\Users\masriniv\Downloads>docker images				
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
default-route-openshift-image-registry.apps.xv7w6hrc.westus2.aroapp.io/bitnami/postgresql	latest	42267548cd2a	2 days ago	258MB
bitnami/postgresql	latest	42267548cd2a	2 days ago	258MB
gcr.io/k8s-minikube/kicbase	v0.0.17	a9b1f16d8ece	2 months ago	985MB

• **Pushing** - the second step is to push the tagged image into the registry.

docker push >/>/>:>				
C:\Users\masriniv\Downloads>docker images REPOSITORY bitnami/postgresql default-route-openshift-image-registry.apps.xv7w6hrc.westus2.aroapp.io/bitnami/postgresql gcr.io/k8s-minikube/kicbase	TAG latest latest v0.0.17	IMAGE ID 42267548cd2a 42267548cd2a a9b1f16d8ece	CREATED 2 days ago 2 days ago 2 months ago	SIZE 258MB 258MB 985MB
C:\Users\masriniv\Downloads>docker push default-route-openshift-image-registry.apps.xv7w6hr Using default tag: latest The push refers to repository [default-route-openshift-image-registry.apps.xv7w6hrc.westus2 6a5db3294032: Layer already exists e711d9bc294a: Layer already exists 536f65d434c8: Layer already exists 536f65d434c8: Layer already exists 5366bf448e4cb: Layer already exists 8eee54dba937: Layer already exists 144c8eed628e: Layer already exists 065092d7482f: Layer already exists 605092d7482f: Layer already exists 627165061162: Layer already exists 62716506776ae: Layer already exists 6371050776ae: Layer already exists 640cf0ba5e68: Layer already exists	rc.westus2 2.aroapp.i	.aroapp.io/bitn	ami/postgresql resql]	
latest: digest: sha256:5e2e868fb3489042221549e664ed542ea7020d959c9d9ef449e62de96e91f867 siz	ze: 3046			

You can see the image pushed into the registry on the **Image Streams** tab of the corresponding project. An example pushed image is shown in the following screenshot.



How to pull images from the registry?

Pulling images from registry during Helm installations

You can pull the image from the OpenShift Container Registry during Helm installations. You can do so by overriding the corresponding Helm parameter with the internal registry details. The internal registry value is highlighted in the example screenshot given below.

Annotations

0 Annotations 🖋

Image Repository

image-registry.openshift-image-registry.svc:5000 bitnami/bitnami-shell

Public Image Repository

default-route-openshift-image-registry.apps.xv7w6hrc.westus2.aroapp.io/bitnami/bitnami-shell

Pulling images across projects

You can refer the image created under one project across different projects by creating policies. https://access.redhat.com/documentation/en-us/openshift_container_platform/4.1/html/images/ managing-images#images-allow-pods-to-reference-images-across-projects_using-image-pull-secrets.

The command to create policy is as follows:

oc policy add-role-to-user system:image-puller system:serviceaccount:>:default -namespace=>

Tip

You can verify that image is being pulled and used in Helm installation by either navigating to the **Workloads** >> **Pods** >> **Events** tab in UI or by running the command oc describe pod in the command line.