Configuring container image settings

To run or debug an application on Kubernetes, you'll need to define the container image repository for your project, by configuring it in the **Develop on Kubernetes** and **Run on Kubernetes** run configurations.

If you are running on a local cluster like Minikube or Docker Desktop, you do not need to specify these urations.

Specifying where container images are stored

If you'd like to update the image repository where the project images are about to be pushed, follow these instructions:

1. Navigate to the Run/Debug configurations dialog on the top taskbar or the top-level main menu: **Run** > **Edit Configurations…** > **Develop on Kubernetes** or **Run on Kubernetes** > **Where are the container images stored?**.

⭐ **Note:** Choose **Develop on Kubernetes** if you'd like your code changes to be automatically built, pushed, and deployed to your app; choose **Run on Kubernetes** if you'd like to build the image and deploy the project to your Kubernetes cluster.

⭐ **Note:** You'll need to apply these steps to both configurations if you choose to both develop and run your app on Kubernetes.

2. Fill in the **Where are the container images stored?** field.
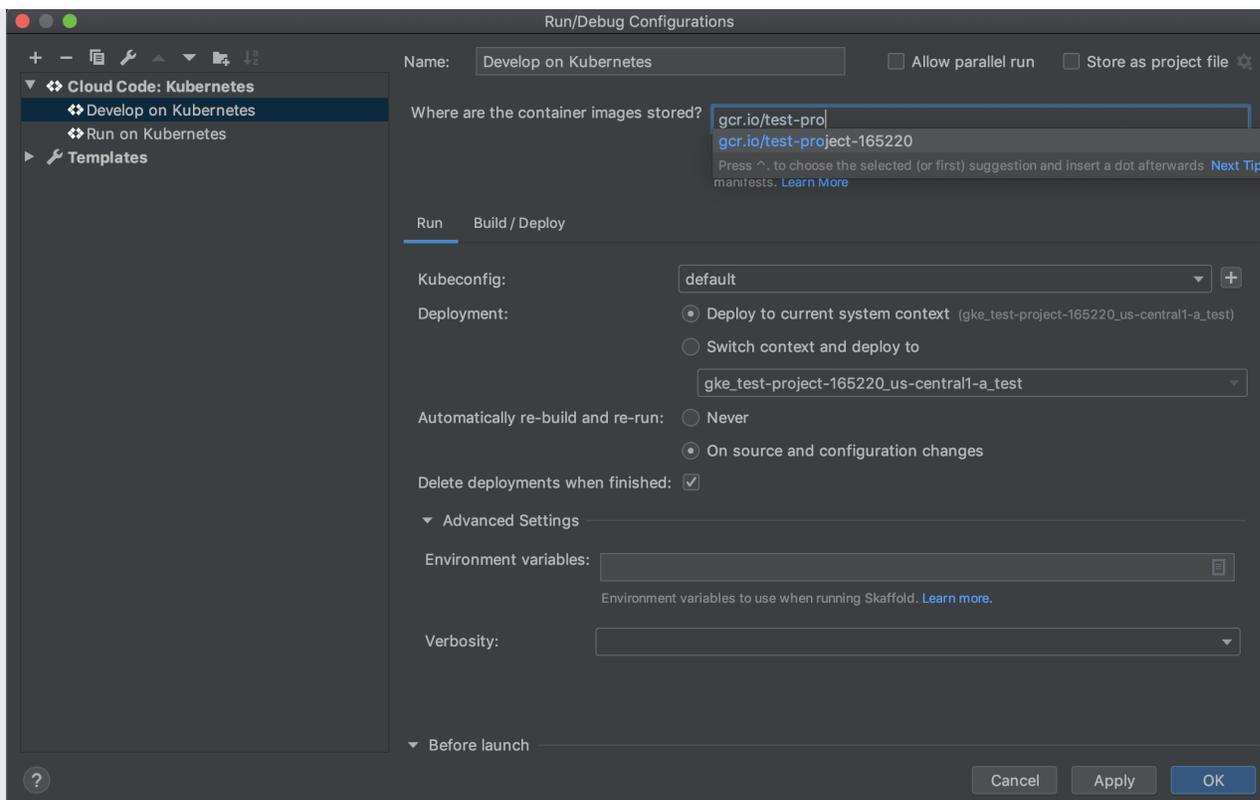
- If you are using GKE, you can store your images on Google Container Registry, using the following format:

  gcr.io/{project-name} where {project-name} is the name of your GCP project containing your cluster.

- If you choose to store your images on Docker Hub (ensure that you are <u>properly authenticated</u>
 (https://kubernetes.io/docs/tasks/configure-pod-container/pull-image-private-registry) if you are using a private Docker Hub repository), use the following format:

  docker.io/{account} where {account} is the name of your Docker Hub account.

Image name creation

The resulting image name is concatenated from the specified default image repository and the image name from the project's Kubernetes resources. For the 'java-guestbook' example, and

GCR image repository as the default one, the resulting full image name would be `gcr.io/{project_id}/java-guestbook`.

Common image repository formats

Here are examples of how to specify where container images are stored for some common registries:

- Docker Hub: `docker.io/{account}`

- Google Container Registry: `gcr.io/{project_id}`

- AWS Elastic Container Registry (ECR): `{aws_account_id}.dkr.ecr.{region}.amazonaws.com/{my-app}`

- Azure Container Registry (ACR): `{my_acr_name}.azurecr.io/{my-app}`

Last updated 2020-08-19 UTC.