

Creating a Kubernetes Cluster with Jenkins X and Importing App

This lesson provides the link to gists that you can use to create a Kubernetes cluster with Jenkins X. Moreover, it also gives some steps to follow before we continue with the chapter.

We'll cover the following

- Create a new cluster and install Jenkins X
 - GKE
 - EKS
 - AKS
- Install Jenkins X in an existing serverless cluster
- Importing the application

You can skip this section if you kept the cluster from the previous chapter and it contains **serverless Jenkins X**. Otherwise, we'll need to create a new Jenkins X cluster.



All the commands from this chapter are available in the [15-advanced-pipelines.sh](#) Gist.

Create a new cluster and install Jenkins X

For your convenience, the Gists that will create a new serverless Jenkins X cluster or install it inside an existing one are as follows.

GKE

Create a new serverless **GKE** cluster:

[gke-jx-serverless.sh](#)



EKS

Create a new serverless **EKS** cluster:

[eks-jx-serverless.sh](#)



AKS

Create a new serverless **AKS** cluster:

[aks-jx-serverless.sh](#)



Install Jenkins X in an existing serverless cluster

Use an **existing** serverless cluster: [install-serverless.sh](#)

Importing the application



The commands that follow will reset your *go-demo-6* **master** with the contents of the **extension-model-cd** branch that contains all the changes we did so far. Please execute them only if you are unsure whether you did all the exercises correctly.


```
cd go-demo-6  
  
git pull  
  
git checkout extension-tekton  
  
git merge -s ours master --no-edit  
  
git checkout master  
  
git merge extension-tekton
```



```
git merge extension-branch
```

```
cd ..
```

If you ever restored a branch at the beginning of a chapter, the chances are that there is a reference to my user (`vfarcic`). We'll change that to the Google project since that's what Knative will expect as the location of the container images.

 Please execute the commands that follow only if you are using **GKE** and if you ever restored a branch at the beginning of a chapter (like in the snippet above).


```
cd go-demo-6

cat charts/go-demo-6/Makefile \
| sed -e \
"s@vfarcic@$PROJECT@g" \
| sed -e \
"s@devops-26@$PROJECT@g" \
| tee charts/go-demo-6/Makefile

cat charts/preview/Makefile \
| sed -e \
"s@vfarcic@$PROJECT@g" \
| sed -e \
"s@devops-26@$PROJECT@g" \
| tee charts/preview/Makefile

cat skaffold.yaml \
| sed -e \
"s@vfarcic@$PROJECT@g" \
| sed -e \
"s@devops-26@$PROJECT@g" \
| tee skaffold.yaml

cd ..
```

 If you destroyed the cluster at the end of the previous chapter, you'll need to import the *go-demo-6* application again. Please execute the commands that follow only if you created a new cluster specifically for the exercises from this chapter.

```
cd go-demo-6
```

```
jx import --pack go --batch-mode
```

```
cd ..
```

Now we are ready to continue.