

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
- Before we get started

If you kept the cluster from the previous chapter, you can skip this section. Otherwise, we'll need to create a new Jenkins X cluster.



All the commands from this chapter are available in the [09-promote.sh](#) Gist

Create a new cluster and install Jenkins X

For your convenience, the Gists from the previous chapter are available below as well.

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](#)

Before we get started

We'll continue using the *go-demo-6* application. Please enter the local copy of the repository, unless you're there already.

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



The commands that follow will reset your **master** with the contents of the **pr** 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.


```
git pull
```

```
git checkout pr-tekton
```


```
git merge -s ours master --no-edit
```



```
git merge --ours master --no-edit  
  
git merge pr-tekton  
  
git push
```

 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).

```
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
```

 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.

```
jx import --batch-mode  
  
jx get activities \  
--filter go-demo-6 \  
--watch
```

Please wait until the activity of the application shows that all the steps were executed successfully, and stop the watcher by pressing *ctrl+c*.

Now we can promote our last release to production.