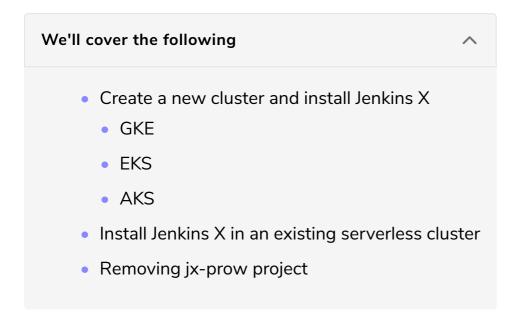
Creating a Kubernetes Cluster with Jenkins X

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.



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 13-pipeline-extension-model.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





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

Removing jx-prow project

We will not need the <code>jx-prow</code> project we created in the previous chapter. If you are reusing the cluster and Jenkins X installation, you might want to remove it and save a bit of resource.

Please replace [...] with your GitHub user before executing the commands that follow.

```
GH_USER=[...]

jx delete application \
    $GH_USER/jx-prow \
    --batch-mode
```

The commands that follow will reset your *go-demo-6* master with the contents of the versioning 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 versioning-tekton

git merge -s ours master --no-edit

git checkout master

git merge versioning-tekton

git push

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
```

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 --batch-mode

jx get activities \
    --filter go-demo-6 \
    --watch

cd ..
```

Now we can explore Jenkins X Pipeline Extension Model.