Creating a Kubernetes Cluster (Without Jenkins X)

This lesson provides the link to gists that you can use to create a Kubernetes cluster without Jenkins X.

> **We'll cover the following** ⌃
>
> - Create a new cluster and install Jenkins X
>   - GKE
>   - EKS

> ⚠️ As mentioned at the beginning of this chapter, the examples are verified only in GKE and EKS, given those are the only currently (February 2020) supported platforms for `jx boot`. Double-check the documentation to see whether that changed or be brave and try it out yourself with other Kubernetes flavors.

From now on, we will not use `jx create cluster` to create a Kubernetes cluster and install Jenkins X. Instead, I will assume that you will create a cluster any way you like (e.g., **Terraform**, `gcloud`, etc.) and we'll focus only on how to set up Jenkins X. If you're lazy and do not yet want to figure out the best way to create a cluster, the Gists that follow can get you up-to-speed fast. Just remember that the commands in them are not the recommended way to create a cluster, but rather the easiest and fastest method I could come up with.

I opted for commands instead of, let's say, **Terraform** for two reasons.

- First of all, I'm trying to keep this neutral as a way to avoid influencing you about the tool you should use for managing infrastructure. Now, I'm aware that I already stated a couple of times that I prefer **Terraform**, so I cannot say that I am neutral *(I'm not)*, so that argument is not really valid, so let's jump to the second one.

- The more important reason for not using any tool for creating and setting up a cluster lies in the decision not to spend time explaining such a tool. This is

neither the time nor the place to enter into configuration management discussion.

Create a new cluster and install Jenkins X

Finally, please note that, just as before, the Gists contain instructions not only to create but also to destroy the cluster. For now, focus on creating it and postpone your destructive tendencies for the end.

🔍 The codes from this chapter are available in the [18-boot.sh](#) Gist.

The Gists are as follows.

GKE

Create new **GKE** cluster: [gke.sh](#)

EKS

Create new **EKS** cluster: [eks.sh](#)

Now that we have a Kubernetes cluster, we can turn our attention to Jenkins X Boot.