

Create a Cluster

This lesson focuses on how to create a cluster.

WE'LL COVER THE FOLLOWING ^

- Creating a cluster
- Gists and specifications

Creating a cluster

Before we create a cluster (or start using one you already have available), we'll clone the [vfarcic/k8s-specs](#) repository which contains most of the definitions we'll use in this course.

A note to Windows users

Please execute all the commands from this course from Git Bash. That way, you'll be able to run them as they are instead of modifying their syntax to adapt them to Windows terminal or PowerShell.

All the commands from this chapter are available in the [01-hpa.sh](#) Gist.

```
git clone https://github.com/vfarcic/k8s-specs.git  
  
cd k8s-specs
```

If you cloned the repository before, please make sure that you have the latest version by executing `git pull`.

Gists and specifications

The gists and the specifications that follow are used to test the commands in this chapter. Choose the flavor you want and run the commands from its `.sh` file to create the cluster and the required specifications needed in this chapter.

NOTE: In the end, you will see a command to **DELETE** the cluster too. Don't execute that command. Use the **DELETE** command only when you need to delete the cluster, preferably at the end of the chapter.

GKE

- [gke-scale.sh](#): **GKE** with 3 n1-standard-1 worker nodes



EKS

- [eks-scale.sh](#): **EKS** with 3 t2.small worker nodes

AKS

- [aks-scale.sh](#): **AKS** with 3 Standard_B2s worker nodes



Docker for Desktop

- [docker-scale.sh](https://github.com/docker-scale.sh): **Docker** for
Desktop with 2 CPUs, 2 GB RAM



Minikube

- [minikube-scale.sh](https://github.com/minikube/minikube-scale.sh): **minikube**
with 2 CPUs, 2 GB RAM



Please note that we will use **Helm** to install necessary applications, but we'll switch to “pure” Kubernetes YAML for experimenting with (probably new) resources used in this chapter and for deploying the demo application. In other words, we'll use **Helm** for one-time installations (e.g., **Metrics Server**) and YAML for things we'll explore in more detail (e.g., **HorizontalPodAutoscaler**).

In the next lesson, let's talk about **Metrics Server**.