

Task2

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1 Creating a Cluster with Minikube

1.0.1 Minikube Options

A cluster can be created with just `minikube start` but we want to customise the configuration a bit. So let's have a look at the possible options.

```
minikube start -h
```

1.0.2 Starting a Cluster

For our first cluster we want to use Kubernetes version `v1.20.0` and give it 2 cpus with 4GB memory.

```
minikube start --cpus 2 --memory 4096 --kubernetes-version v1.20.0
```

This is the latest Kubernetes version available at the moment [link](#)

1.0.3 Status Check

Once our cluster is created we want to check on its status.

```
minikube status
```

1.0.4 Minikube Addons

Lets see what Add-Ons are available.

```
minikube addons list
```

Let's enable few more addons using:

```
minikube addons enable ingress
minikube addons enable registry
minikube addons enable metrics-server
minikube addons enable dashboard
```

1.0.5 Dashboard

We can then access the *Dashboard* using:

```
minikube dashboard
```

1.0.6 Services

We can also see what services are available in the cluster using:

```
minikube service list
```

1.0.7 Minikube logs

If we want to see the *Minikube* logs we can also do that using

```
minikube logs
```

1.0.8 Minikube Docker Daemon

To point the terminal to use the docker daemon inside minikube use this:

```
bash eval $(minikube docker-env)
```

This will show uscontainers inside the minikube:

```
docker ps
```