Installing Funktion

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To use funktion you will need a kubernetes or openshift cluster.

If you are on your laptop a quick way to get a kubernetes cluster is by installing and starting minikube and then installing kubectl and putting it on your PATH environment variable.

You will also need to download the funktion binary for your platform and add it to your PATH environment variable

To test your kubernetes cluster type the following commands which should succeed without error:

kubectl get node
kubectl get pod

Installing the Funktion Platform

There are a number of microservices required to run funktion:

- funktion operator: manages Deployments for functions and flows
- exposecontroller: exposes Services (functions or flows) over node ports, ingress, public cloud load balancers or openshift routes
- configmapcontroller: performs rolling updates of a Deployment when its associated ConfigMap changes

To install these microservices type:

```
funktion install platform
```

You will then get 3 Deployment resources created in the funktion-system namespace. You can view the pods created via:

```
kubectl get pod -n funktion-system
```

You can change the namespace they are installed into via the --namespace argument:

kubectl create namespace cheese
funktion install platform --namespace cheese

Using Funktion with the Fabric8 Developer Platform

If you are using the fabric8 developer platform then the exposecontroller and configmapcontroller microservices will already be installed. So you don't need to install them again.

So to install the funktion operator just type:

```
funktion install operator
```

The funktion operator Deployment will created in the funktion-system namespace. You can change the namespace they are installed into via the --namespace argument.

Setting up your namespace

Once you have the platform installed you need to install the runtimes and connectors in the namespace you are going to use funktion.

For example to install the default runtimes and some connectors type:

```
funktion install runtime funktion install connector timer twitter
```

That will install the default runtimes (e.g. nodejs) along with the timer and twitter connectors so that you can use them inside flows.

To see a list of all the connectors available type:

```
funktion install connector --list
```

To install all the connectors type:

```
funktion install connector --all
```

Note that installing a connector just creates a kubernetes ConfigMap resource; no containers are created until you use the connector in a flow.