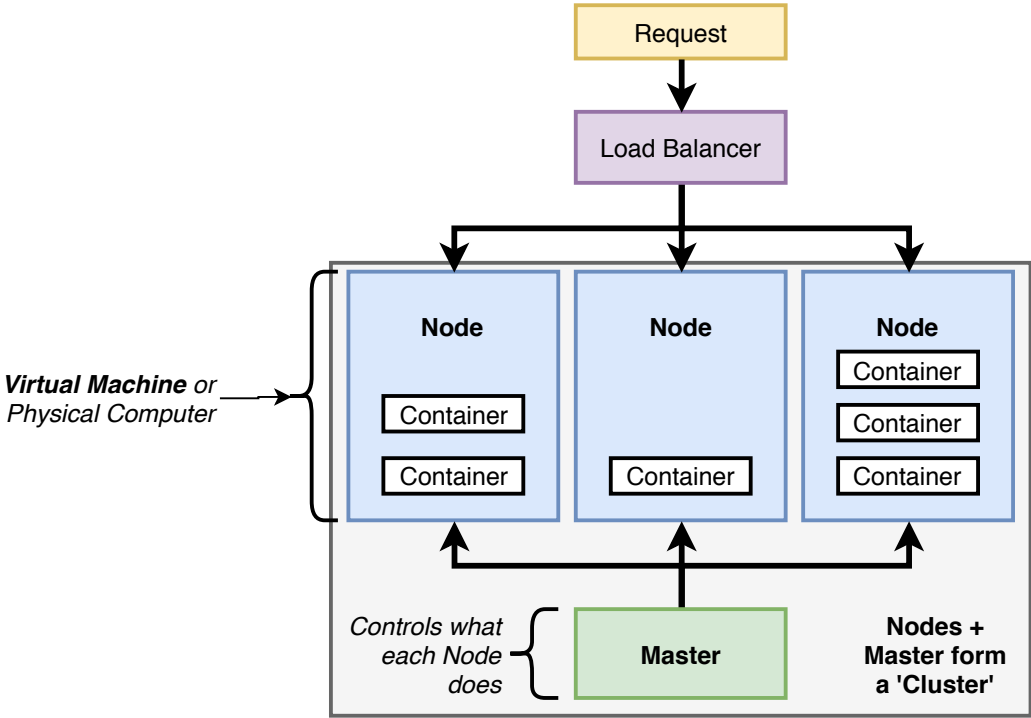
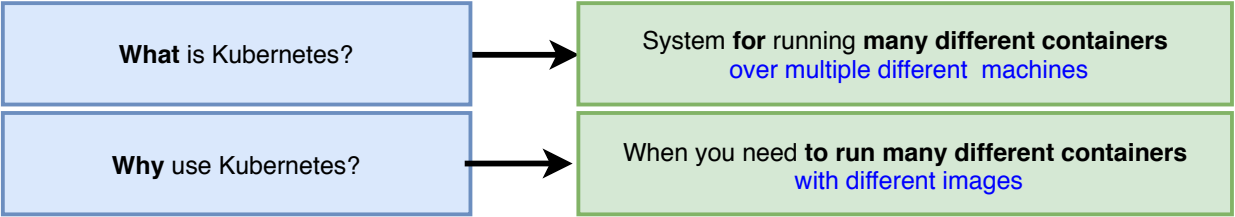
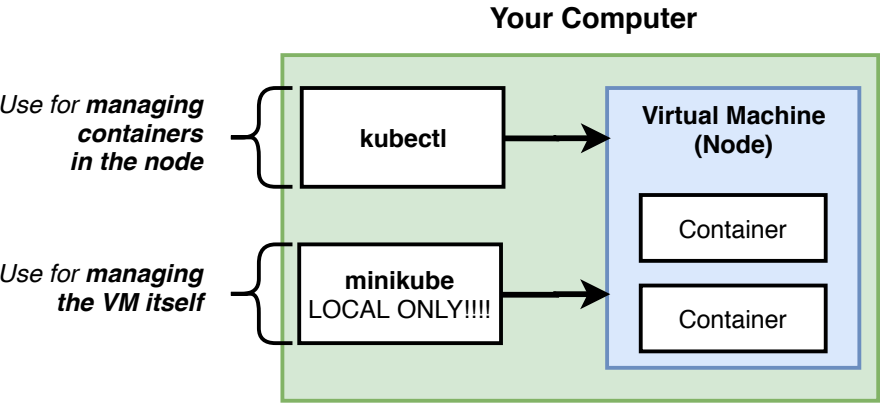
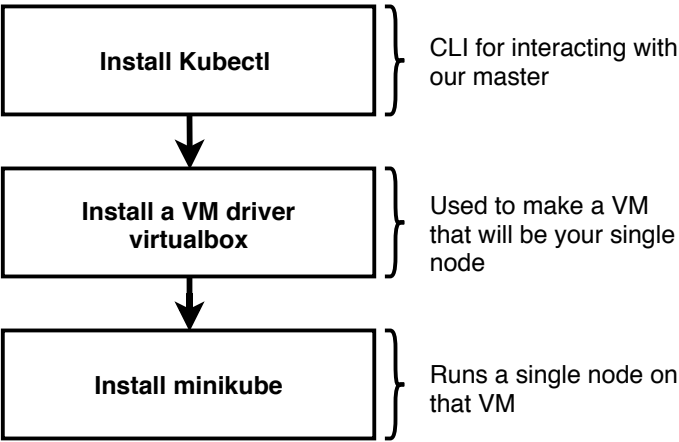


Kubernetes



Local Kubernetes Development



## Docker Compose

## Kubernetes

Each entry can optionally get docker-compose **to build an image**

Kubernetes expects **all images to already be built**

Each entry represents **a container** we want **to create**

**One config file per object** we want to create

Each entry defines **the networking requirement( port )**

We have to **manually set up all networking**

**Get a Simple Container**  
running on our **local Kubernetes Cluster**

Make sure **our image is hosted on docker hub**

Make **one config file** to create **the container**

Make **one config file** to set up **networking**

## Important Takeaways

Kubernetes is a system to deploy containerized apps

**Nodes** are individual machines (or vm's) **that run containers**

**Masters** are machines (or vm's) with a set of programs **to manage nodes**

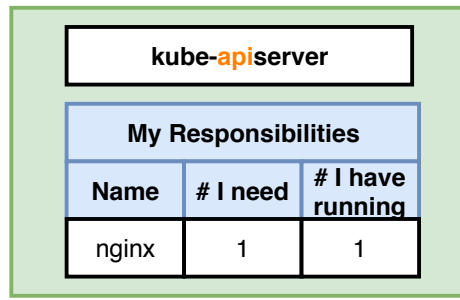
Kubernetes didn't build our images - it got them from somewhere else

Kubernetes (the master) **decided where to run each container**  
- each node can run a dissimilar set of containers

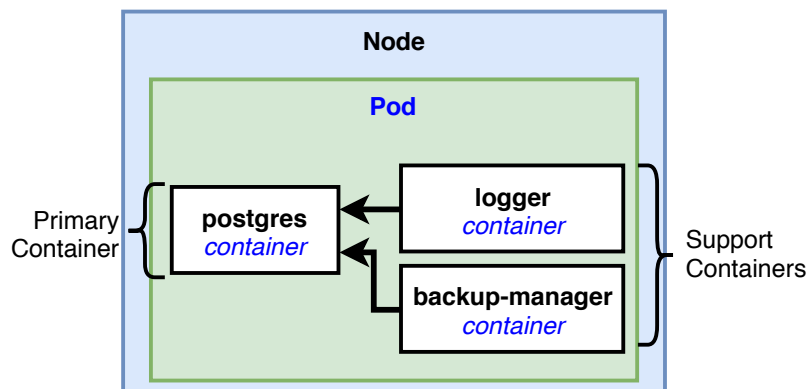
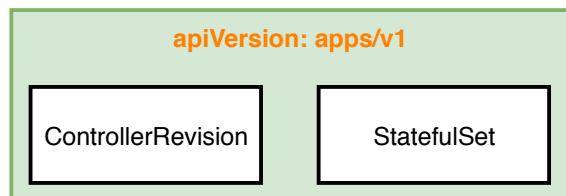
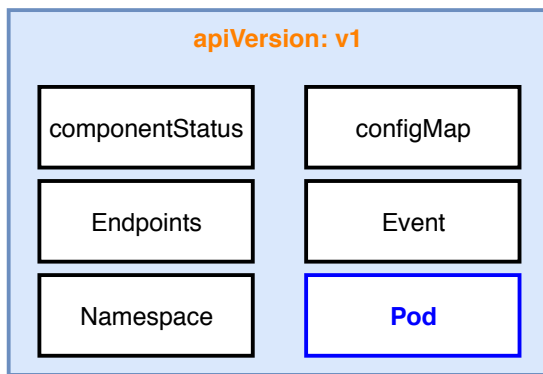
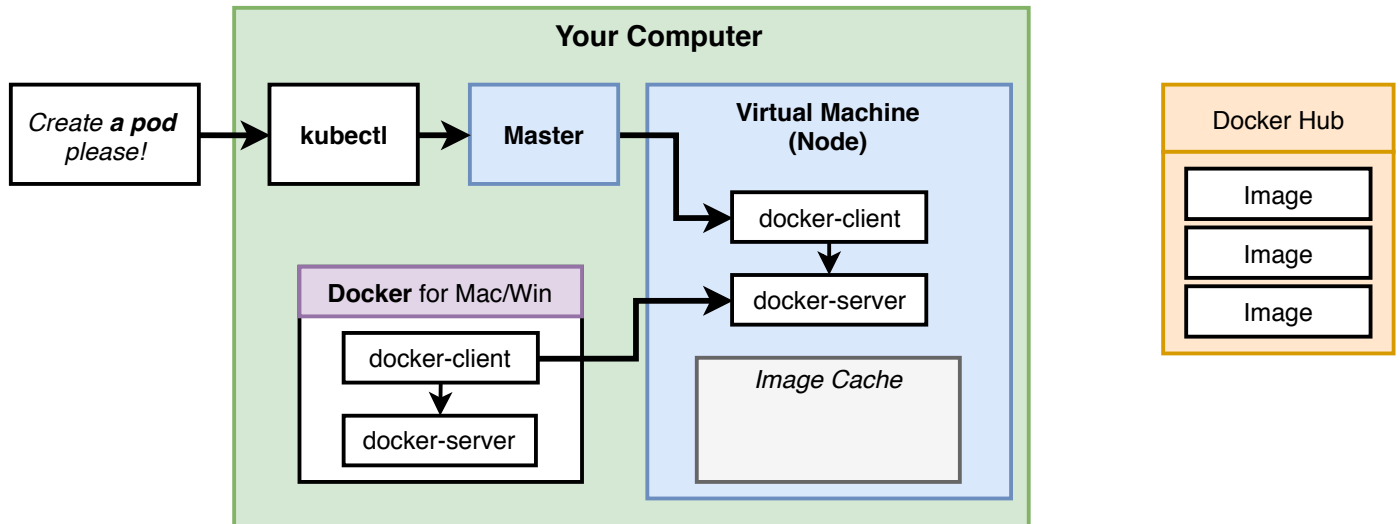
**To deploy** something,  
we update the desired state of the master with a config file

The master works constantly to meet your desired state

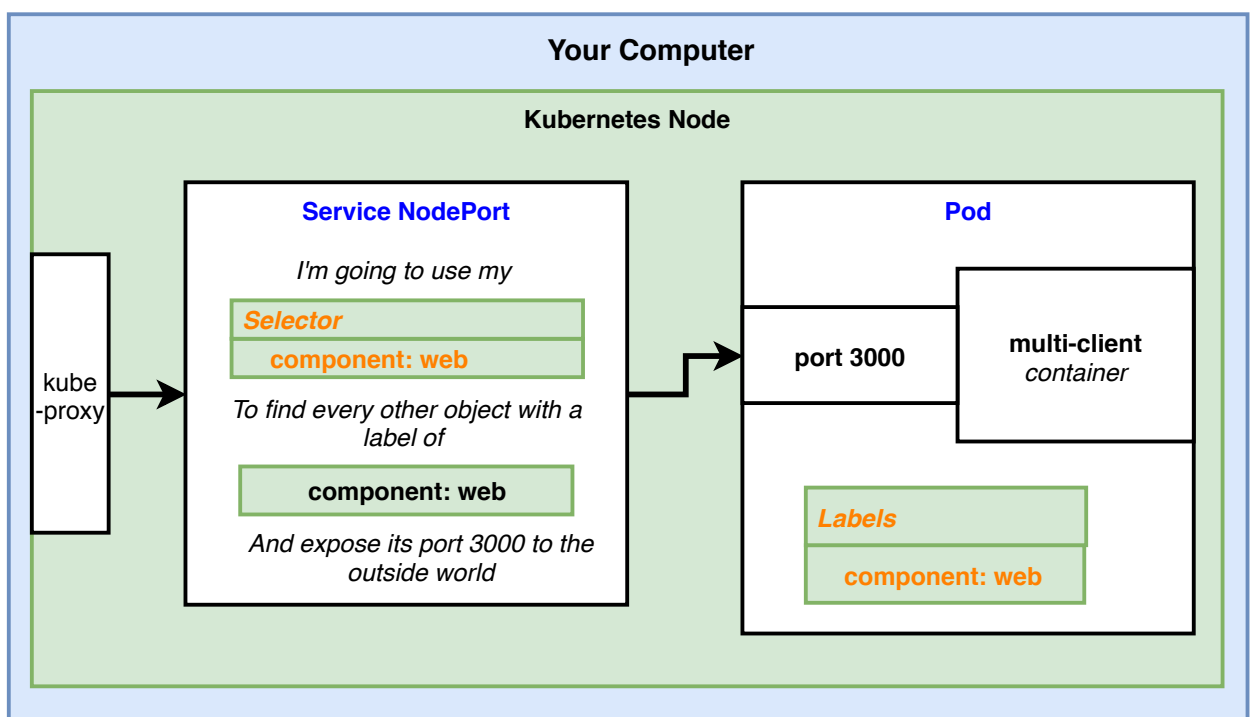
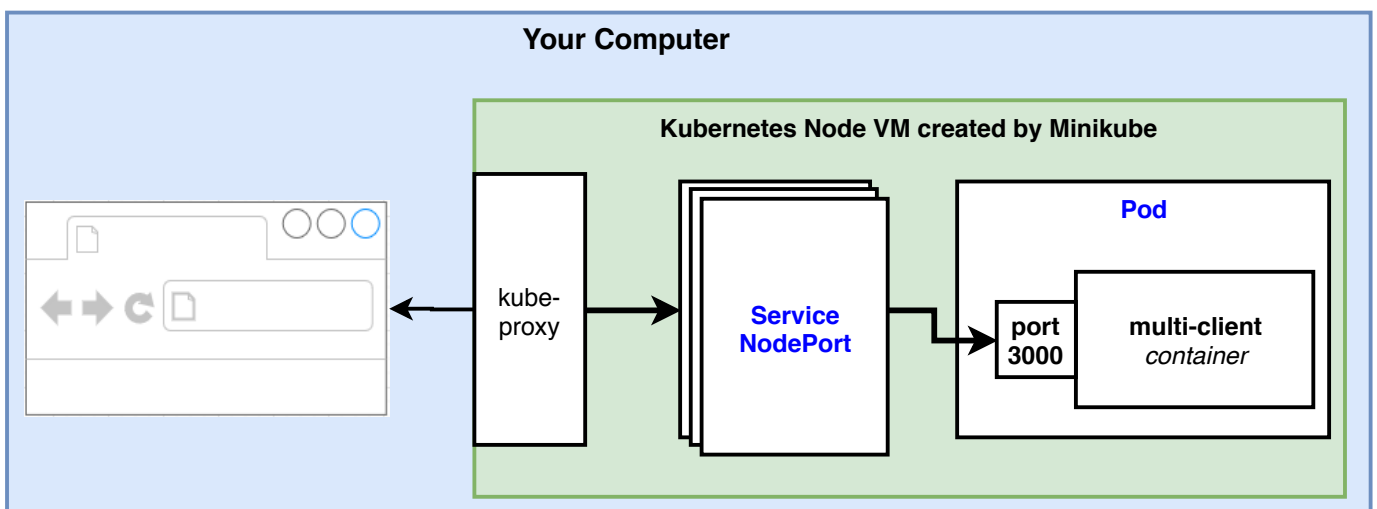
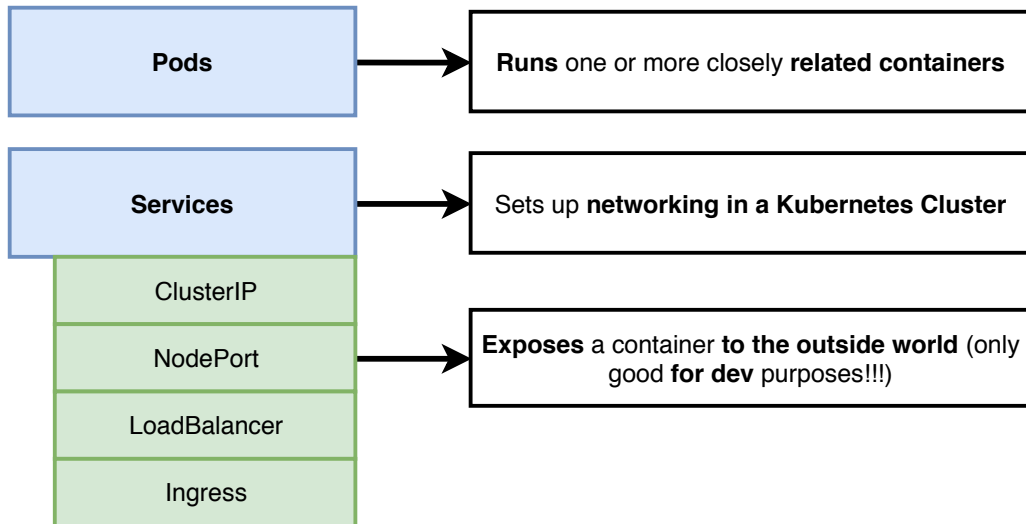
*The important stuff*

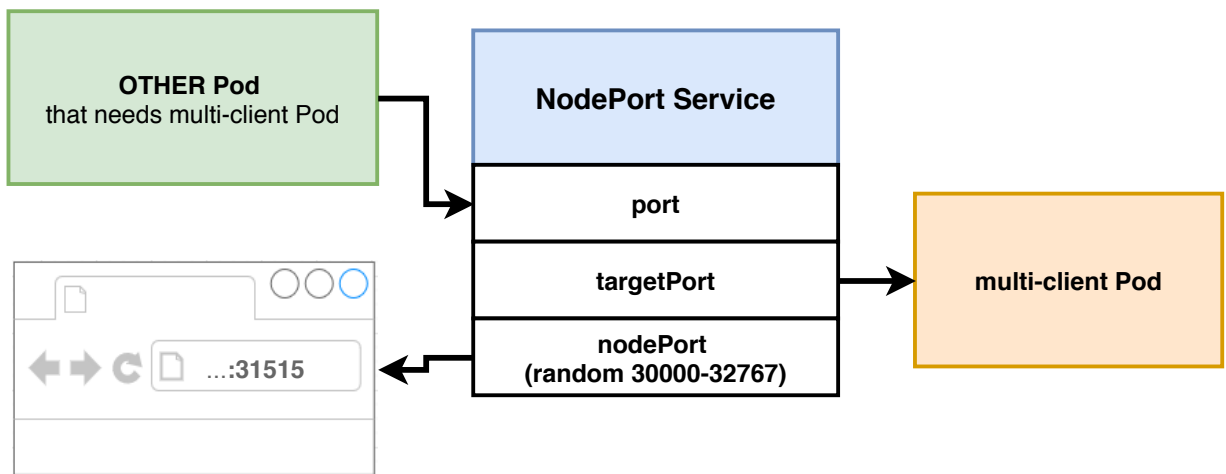


Master

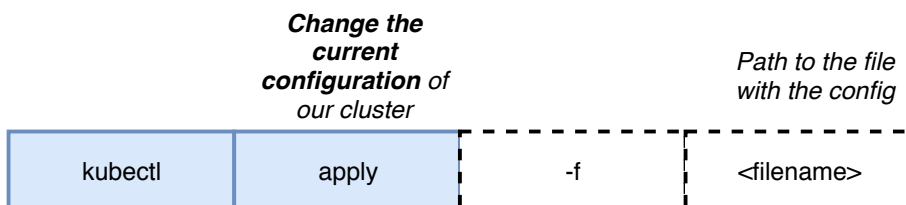


## Object Types



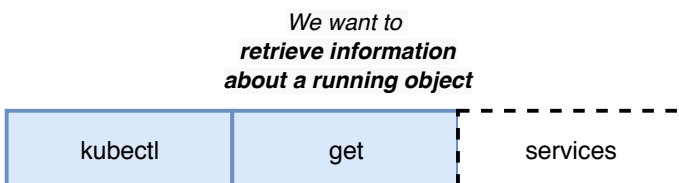
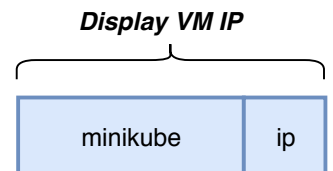


**Feed a config file to Kubectl**



CLI we use to change our Kubernetes cluster

We want to specify a file that has the config changes



CLI we use to change our Kubernetes cluster

Specifies the **object type** that we want to get information about

