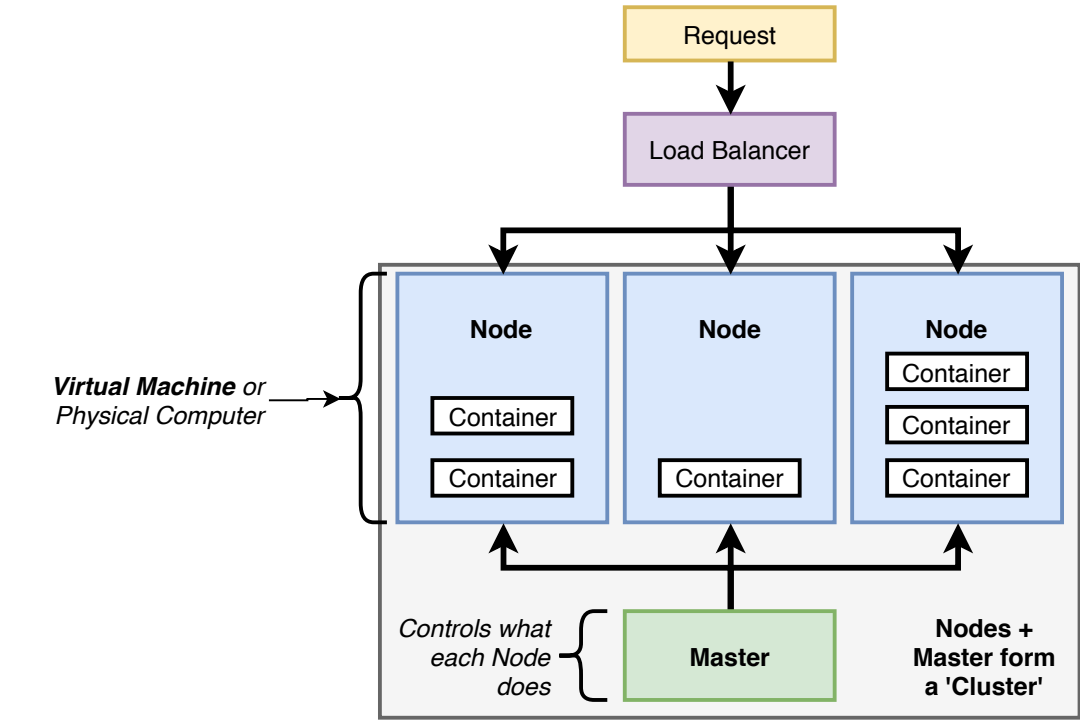
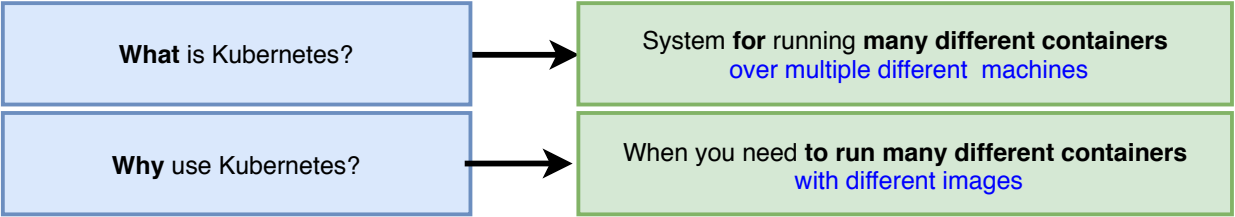
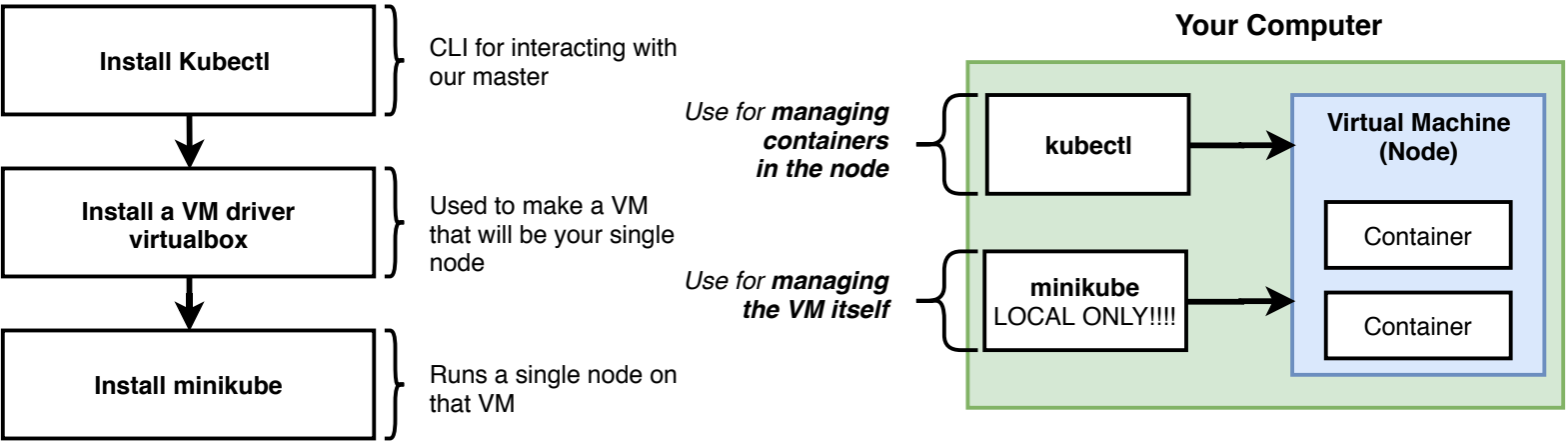


Kubernetes



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**

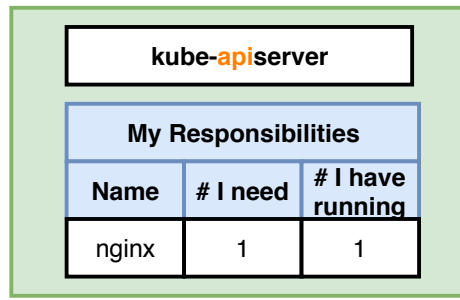
Kubernetes didn't build our images - it got them from somewhere else

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

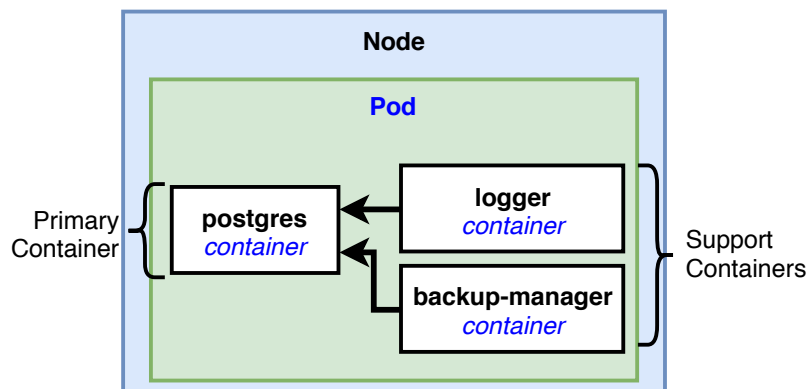
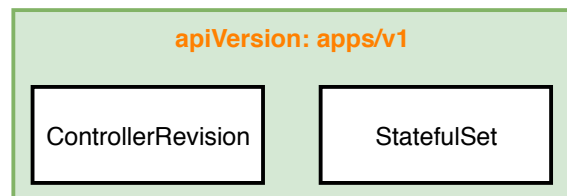
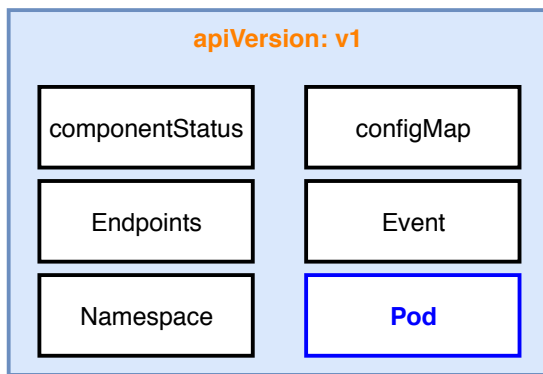
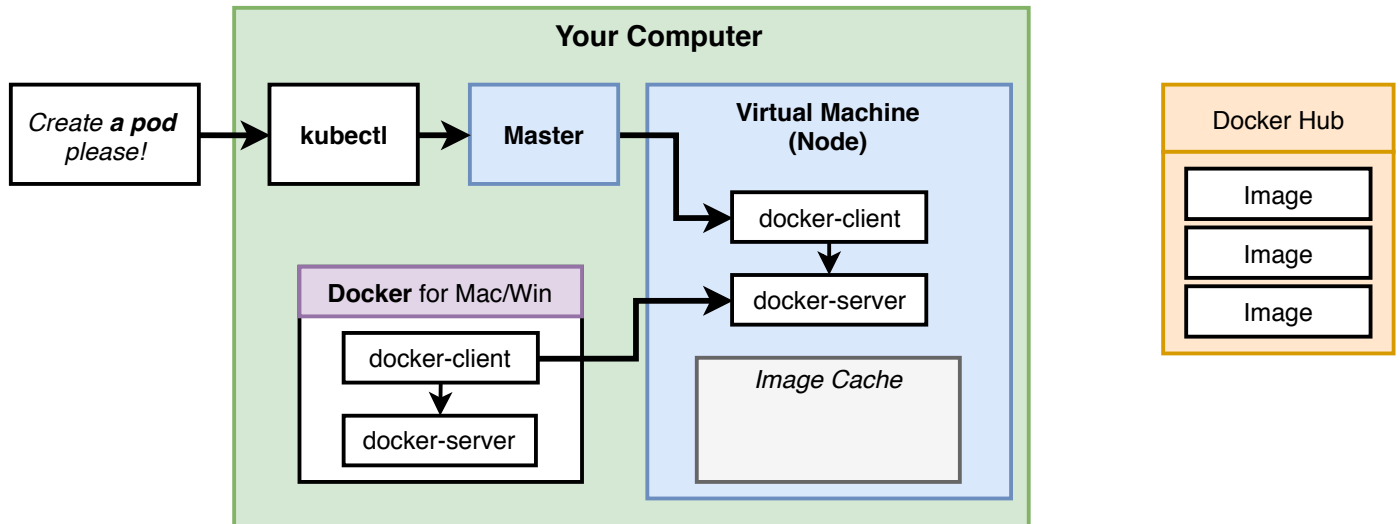
To deploy something,
we update the desired state of the master with a config file

The master works constantly to meet your desired state

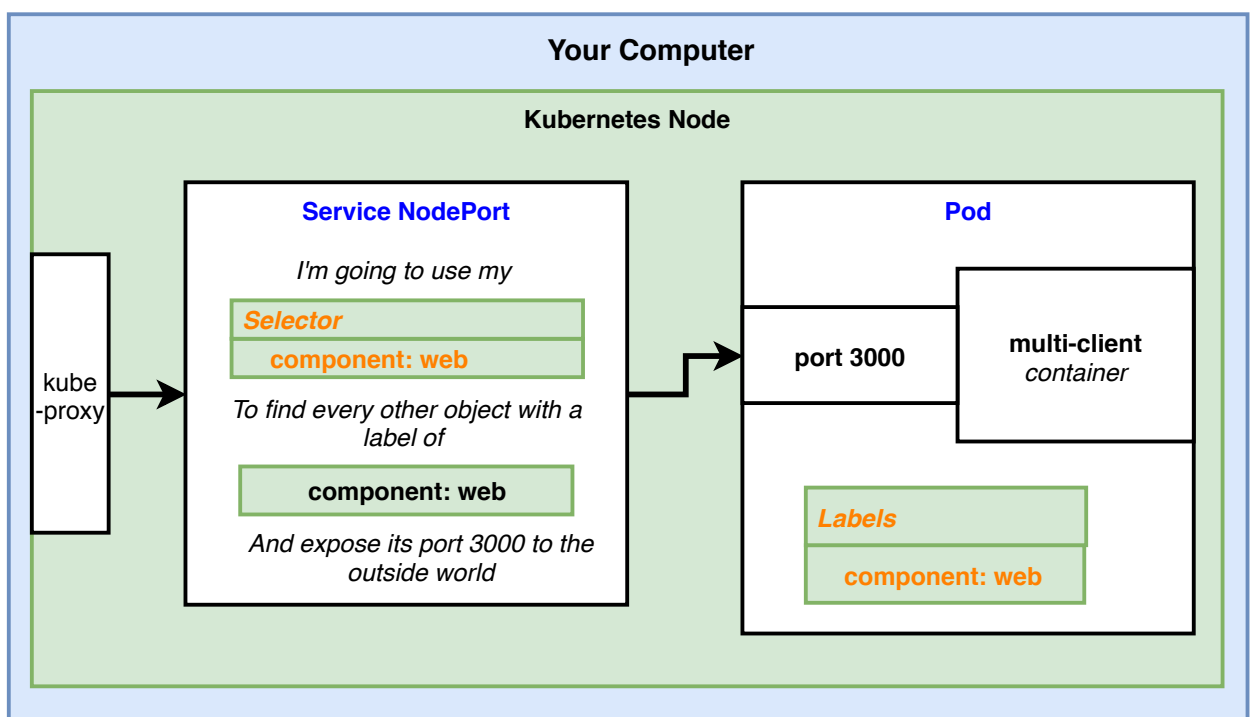
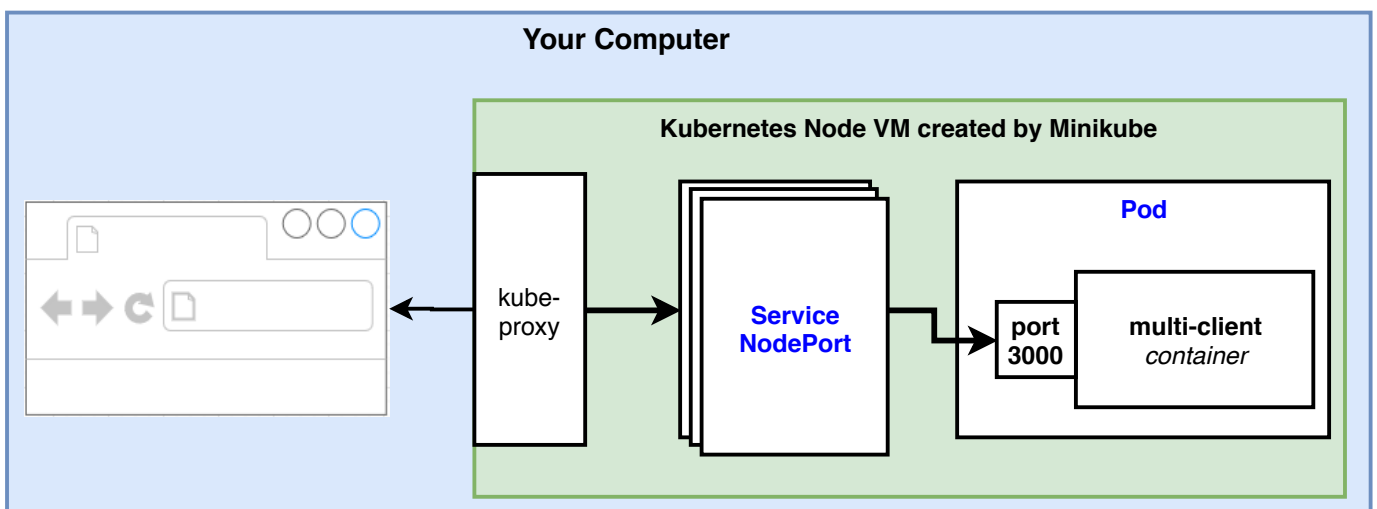
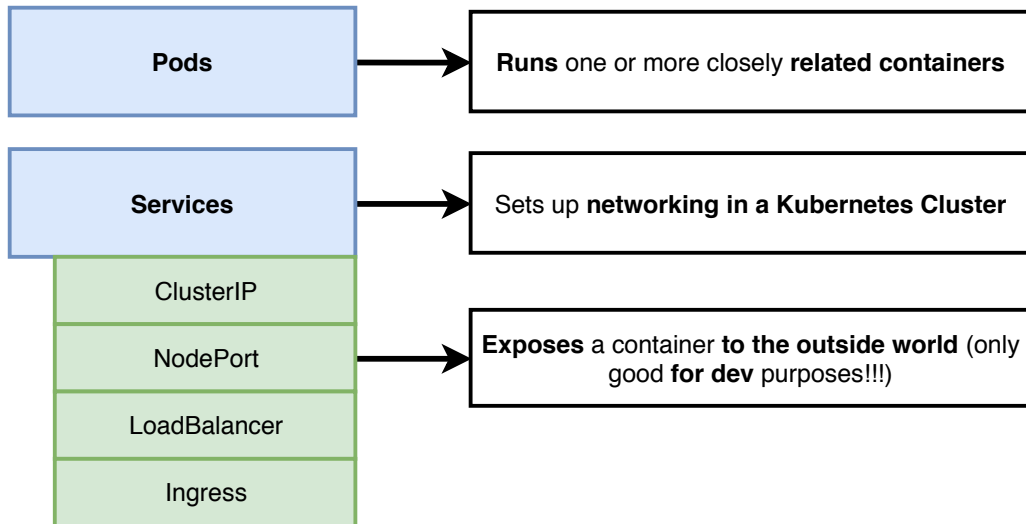
The important stuff

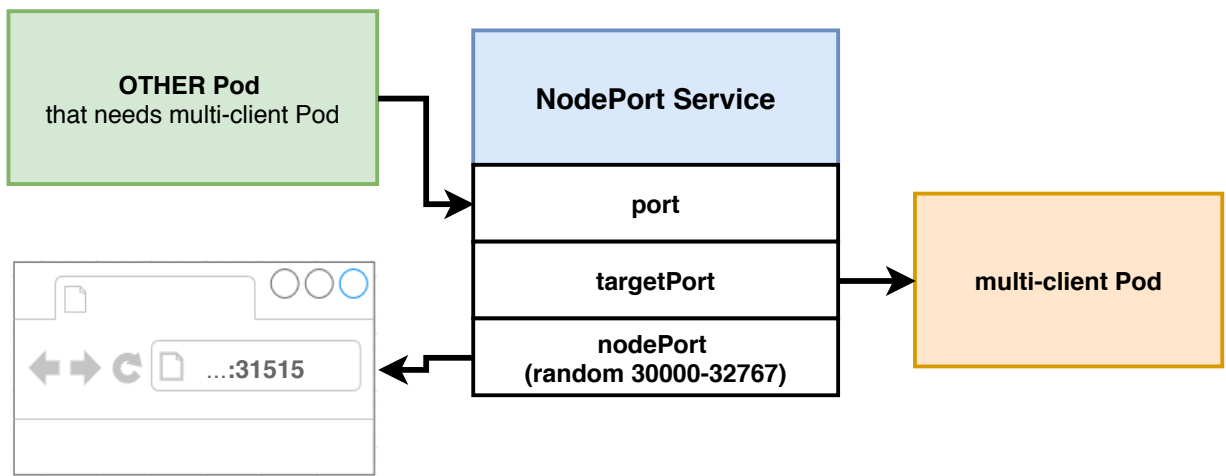


Master



Object Types





Feed a config file to Kubectl

Change the
current
configuration of
our cluster

Path to the file
with the config

kubectl	apply	-f	<filename>
---------	-------	----	------------

CLI we use to
change our
Kubernetes
cluster

We want to
specify a file that
has the config
changes

Display VM IP

minikube	ip
----------	----

We want to
retrieve information
about a running object

kubectl	get	services
---------	-----	----------

CLI we use to
change our
Kubernetes
cluster

Specifies the
object type that
we want to get
information about

kubectl	get	pods
		<-o>
		<wide>

We want to get
detailed info

Name of object

kubectl	describe	< object type >	< object name >
---------	----------	-----------------	-----------------

CLI we use to
change our
Kubernetes
cluster

Specifies the
type of object
we want to get
info about

We want to
delete
a running object

Path to **config file**
that created this
object

kubectl	delete	-f	< config file >
---------	--------	----	-----------------

CLI we use to
change our
Kubernetes
cluster

Specifies that
we want to feed
in a file to say
what to delete