Kubernetes

UNDER CONSTRUCTION

How to deploy and develop Clowder with Kubernetes.

Before starting

- New to Kubernetes? Check https://kubernetes.io/docs/home/ and https://www.katacoda.com/courses/kubernetes
- Checkout the Helm charts https://github.com/ncsa/charts/tree/master/ncsa/clowder
- Docker for Mac comes with Kubernetes (client and server). **Enable it** under Preferences. It is not enabled by default.
- Install https://helm.sh/
- Install https://github.com/ahmetb/kubectx to simplify managing contexts. (this includes both kubens and kubectx)

Using sd-kube

For NCSA users who have access to it.

- Get your config and credentials here https://gonzo-rancher.ncsa.illinois.edu/
- You can use this script to merge configs or keep them separate and switch between them by setting the env variable `KUBECONTROL`
- If kubectx is installed, you can switch contexts using kubectx commmand.

Deploying on Local

- Install helm charts `helm repo add ncsa https://opensource.ncsa.illinois.edu/charts/`
- Make sure they are updated `helm repo update`